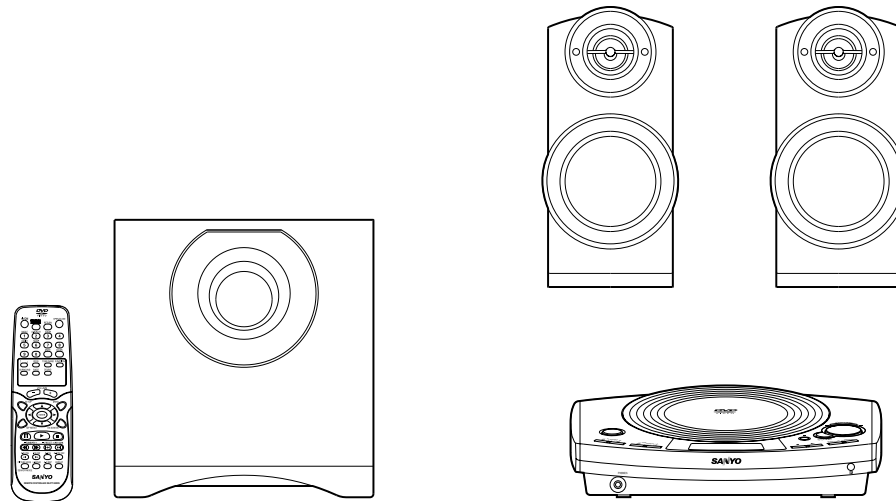


FILE NO.

Service Manual DVD Personal Theater System DC-PT100 (XE)



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PRODUCT CODE No.
129 675 01

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This service manual consists of "JCX-PT100/XE" (Main unit : 129 674 01) ,
"ASX-PT100W/XE" (Sub Woofer Speaker : 165 082 01) and
"SX-PT100F/XE" (Front Speaker system : 165 083 01).

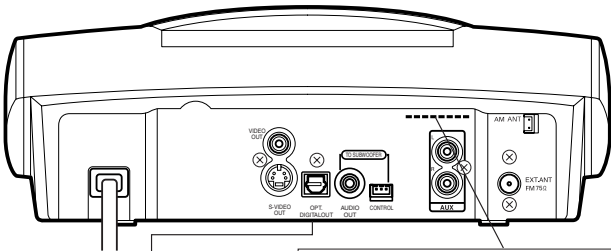
LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

CAUTION :

USE OF CONTROLS OR ADJUSTMENTS
OR PERFORMANCE OF PROCEDURES
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE

LASER OUTPUT 0.6 mW Max. (CW)
WAVELENGTH 790 nm



CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND
INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - USYNLIG LASER STRÅLING VED ÅBNING, NÅR
SIKKERHEDSABRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE
FOR STRÅLING.
VARNING - OSYNLIG LASER STRÅLING NÅR DENNA DEL ÄR ÖPPNAD
OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FÄRLIG.
VORSICHT - UNSICHTBARE LASERSTRAHLUNG TRITTS AUS, WENN
DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG
ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.



DVD MECHANISM REPLACEMENT

1. Cautionary instructions in handling the assy
(Safety instructions)

Optical pickup

The laser beam used in the pickup is classified as "class 2".
Exposing your eyes or skin to the beam is harmful. Take care
not to do so.

(Caution against static electricity and leakage voltage)

Ground securely the work tables, tools, fixtures, soldering irons
(including those made of ceramic) and measuring instruments
used in the production lines and inspection departments that
handle loaders. The workers shall also be grounded.

(Cautionary instructions in handling)

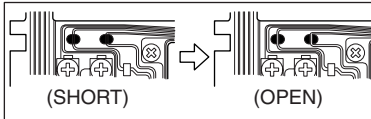
Do not touch the object lens when handling a loader, or the lens
will be stained, resulting in inadequate playability.
There is no power supply protection circuit provided for this
product or adjustment/inspection device. Short-circuiting may
lead to fire or damage.
Take care so as to protect from exposure to water, the entry of
metallic pieces or dew condensation.
In particular, a strong magnet adjacent to the pickup will not only
get inoperative but can damage the pickup if a small metallic
piece, such as a screw or swarm, enters.
The loader edge can cause injury if inadvertently handled.
Do not touch a rotating disk, or injury may result.

This product is a precision device. Handle carefully.
A shock or dropping will cause misalignment or destruction. If it
should occur, refer to clause 2.
This product is so designed as to endure an initial shock
equivalent to a drop from a height of approx. 90 cm under the
packed condition.
After the initial shock, the resistivity will still remain at a level of
50 to 60 G, but the mechanical robustness will weaken.
Do not place in a dusty location.
The entry and deposition of dirt into or on the pickup lens or
moving section will cause malfunction or degradation.

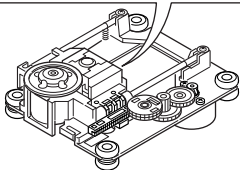
(Connectors)

Do not connect or disconnect while power is on.
Connecting or disconnecting signal wires or the main power cord
when the power is on may destruct the unit or fixture.
When connecting, push all the way in securely.
An insufficient insertion may cause a bad contact, leading to an
erroneous operation.
Do not connect or disconnect roughly by an excessively strong
force, or a broken wire or bad contact may result.
Semiconductors are connected. Do not touch connector terminals
directly.
If the worker is grounded, there is nothing to worry about static
electricity, but the rust on the connector terminal surface caused
by the touch may result in bad contact.

(Caution)



Before disconnecting FFC
cable, make it "SHORT" as
shown left.
After connecting FFC
cable, make it "OPEN" as
shown left.



(Power source)

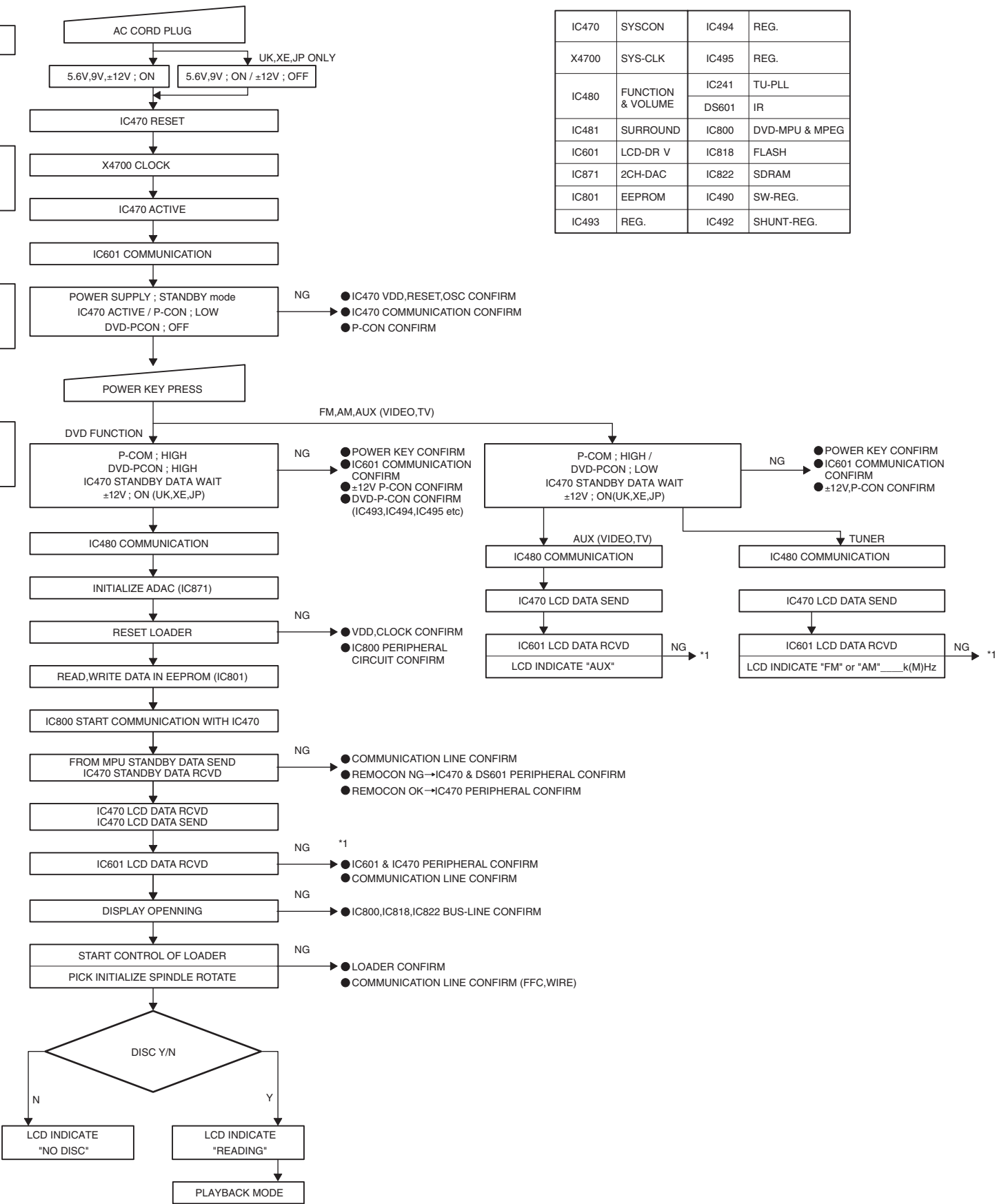
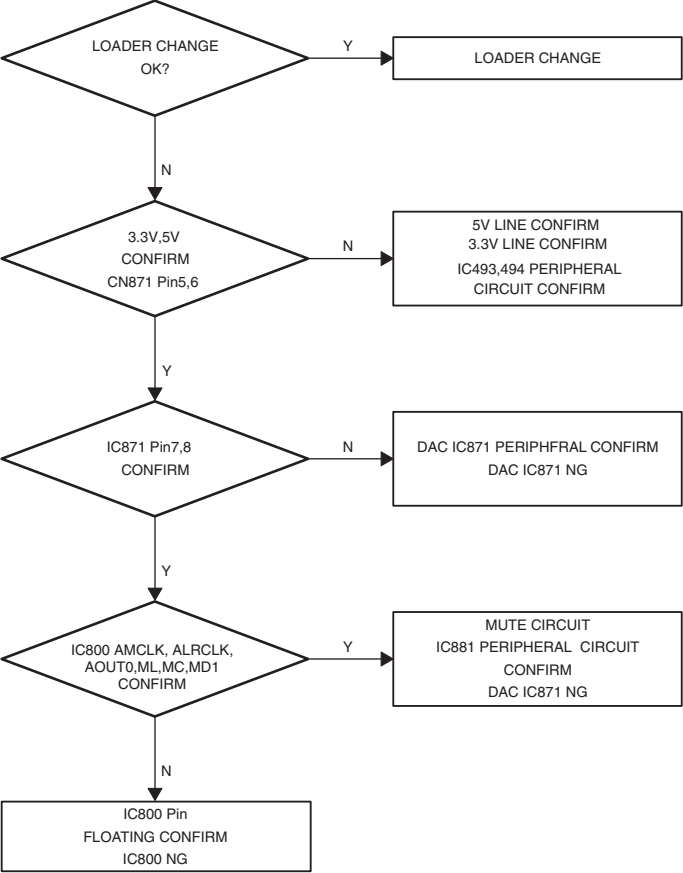
The power source need be good in quality (free from
instantaneous interruptions or noises).
A low quality power source may well cause malfunction.

(Storage)

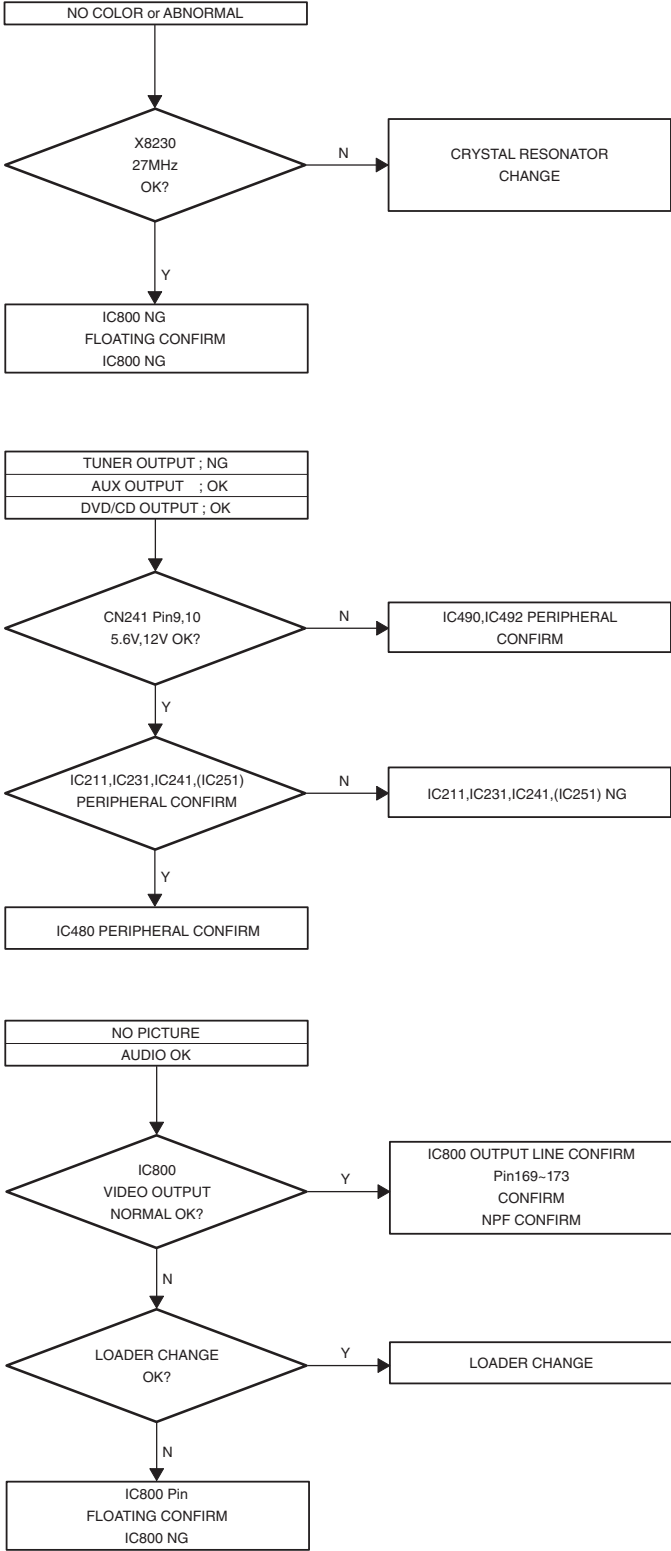
Do not place or store in a dusty place or a place where dew
condensation is possible.
The entry and deposition of dirt or dust into or on the pickup lens
or moving section will cause malfunction or degradation.
Also, dew condensation causes rust; the rust penetrate into the
precision part of a pickup, causing malfunction, or degrading the
optical quality of the internal lens and reflector, which also leads
to malfunction.

TROUBLE SHOOTING

VIDEO COMPOSITE OUT ; OK
TUNER OUTPUT ; OK
AUX OUTPUT ; OK
DVD/CD OUTPUT ; NG



IC470	SYSCON	IC494	REG.
X4700	SYS-CLK	IC495	REG.
IC480	FUNCTION & VOLUME	IC241	TU-PLL
IC481	SURROUND	DS601	IR
IC601	LCD-DR V	IC800	DVD-MPU & MPEG
IC871	2CH-DAC	IC818	FLASH
IC801	EEPROM	IC490	SW-REG.
IC493	REG.	IC492	SHUNT-REG.



SERVICE MODE

A. Market / Region SETUP

In the initial condition for this model, Market and Region information are undefined.

In the following cases, be sure to set up Market/Region.

- 1. When updating the system using CD-R (Part code : 0PRADC9674--A).
 - 2. When replacing a DVD substrate.
- While Market/Region information are undefined, the message "Region Undefined" is displayed on the screen.

NOTE: Even if the condition is not under 1 or 2 above, if the message "Region Undefined" is displayed, be sure to set up Market/Region.

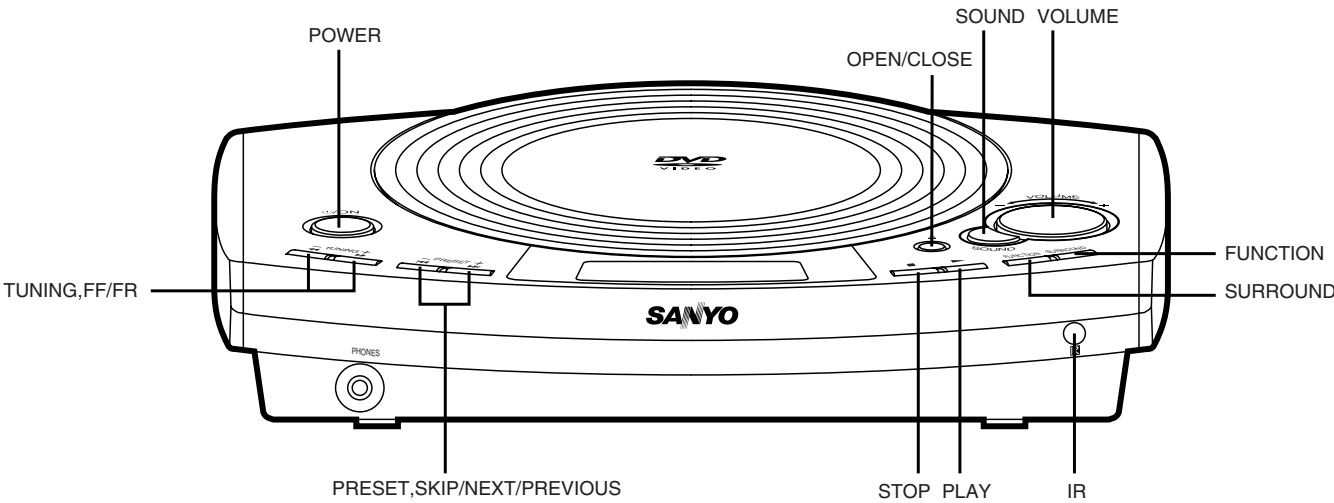


Message under the Market/Region undefine condition

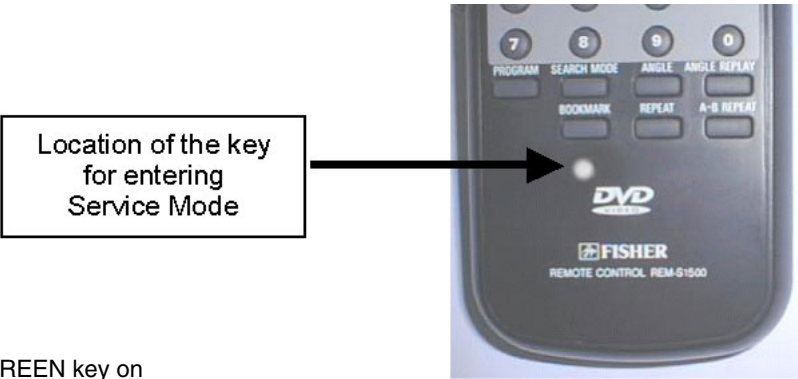
B. How to enter Service Mode.

You can enter Service Mode in any one of the following ways (1 to 3).

- 1. Using the buttons on the main unit
Immediately (within one second) after pushing both SOUND and POWER buttons simultaneously, push PLAY button.



- 2. Pushing the covered key located beneath Book Mark key on RB-1500 or REM-S1500.



- 3. Simultaneously pushing both Shift key and ON SCREEN key on RB-SL30K, RB-TS760, PT100

SERVICE MODE

C. Setup Procedures

- 1. Displaying SERVICE MODE screen
Display Service Mode screen following the instructions "How to enter Service Mode" above.

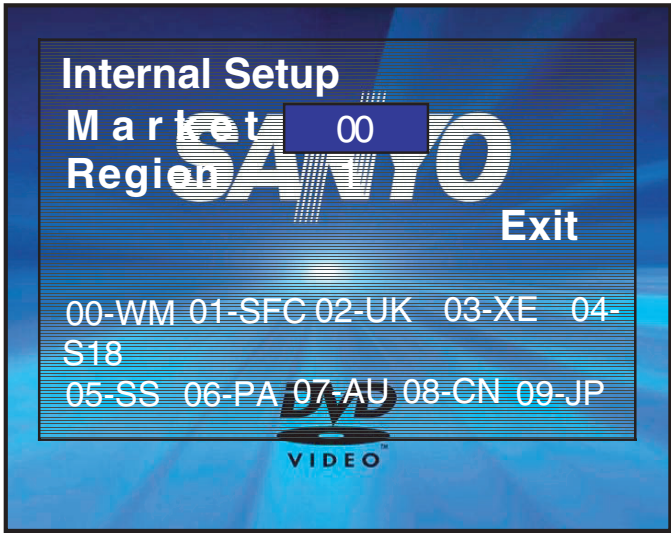


Service Mode Screen

- 2. Displaying Internal Setup screen
Push NEXT button within three seconds after operating the Service Mode display.
On the Internal Setup screen shown on the right, set up Market and Region.

Model	Market	Region
DC-PT100/XE	03	2

Market/Region setup table.



- 3. Setting Market code
3.1. While a highlighted indicator is displayed on the right side of the Market denotation, push numeric buttons on the remote controller.
When you push wrong number, push CLEAR button. (The indicator reset to "00")
Be sure to input by double figures.
For example, in SS input 0 and 5.

- 3.2. Specify the code of the model in accordance with the Market/Region Setup Table above.

- 3.3 Once the desired code is displayed, push ▼ button to move the highlighted indicator to the Region input area.



SERVICE MODE

4. Setting REGION code

- 4.1 While a highlighted indicator is displayed on the right side of the Region denotation, push ENT, -> and <- each button on the remote controller. With each push the indicator will advance as shown below.

1 <-> 2 <-> 3 <-> 4 <-> 5 <-> 6

- 4.2 Specify the number of the model in accordance with the Market/Region Setup Table above.

- 4.3 Once the desired number is displayed, push ▼ button to move the highlighted indicator to Exit area.



5. Saving settings

- 5.1 Make sure that the Market and Region settings are properly set.

(If any of the settings are incorrect, you can make a change by moving the indicator using ▲ button, and following procedures 3 and 4 above.)

- 5.2 After ensuring that the settings are all correct, push ENT button while the indicator is on Exit area. The settings are now saved.



6. Finishing settings

- 6.1 After a few seconds, the Internal Setup screen disappears, and then the Service Mode screen is displayed again for three seconds as shown on the right.

You should check the settings.

Backend version S 21225 A 0

Brand (S : SANYO , F : FISHER) ←

Version (2 0 0 2 . 12 . 25) ←

Sub Version (A,B,.....Z) ←

Region (0 : Region undefined
1 ~ 6 : Region defined) ←

Loader Version (16 Z08 W03)



Service Mode Screen after settings

- 6.2 Power OFF.

SERVICE MODE

D. IMPORTANT NOTE

1. Once the "Market/Region" settings are written into EEPROM (IC801) on the DVD substrate, they cannot be reset.
(However, updating the system using CD-R enables you to make new settings.)
2. While the Internal Setup screen is displayed, pushing the Power button enables you to terminate the operations without making any settings.

HOW TO LOAD SOFTWARE FOR MPEG P.W.BOARD

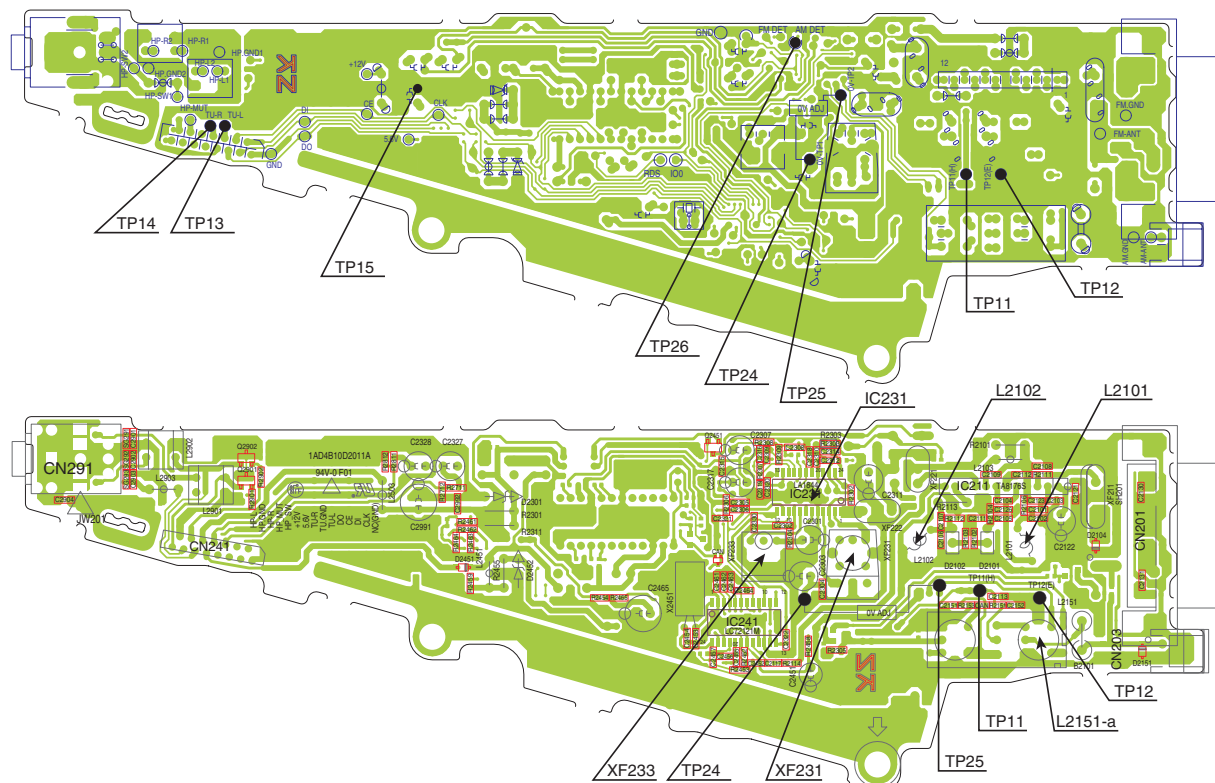
1. Power on, then open tray.
2. It take on CD-ROM for UPDATE software to the tray, and tray close.
3. For the time being, tray open and FL display remain "UP DATING".
4. When software loading finished, "GOOD-BY" on a FL display disappears.
5. Next, set up market code and region code by "SERVICE MODE"
CD-ROM part code is "0PRADC9674--A".

CAUTIONS FOR PWB or IC ASSY EXCHANGE

After an MAIN board(614 328 1603) or IC ASSY(410 489 6705) exchange should carry out loading of the software by the newest CD-R, and should check operation.

TUNER ADJUSTMENT

- Use a plastic screw driver for adjustments.
- Speaker impedance : 8 ohms
- MODE : ST (Stereo)
- TUNING FM : 87.5 - 108MHz
AM : 522 - 1611 kHz



Antenna : 75Ω unbalanced direct, Modulation : 1 kHz
 Dev. : $\pm 22.5\text{kHz}$ (MONO), $\pm 22.5\text{kHz}$ (STEREO), $\pm 6.75\text{kHz}$ (PILOT)
 RF Level : dBuV EMF
 Output Level : about 100mV at TP13, TP14, TP15

1. FM

Step	Adjusting Circuit	Connection		SG Frequency	Adjustment	Remark
		Input	Output			
1	IF Adjustment	FM Ant	IC231 3-22Pin TP24,25	98.0MHz	XF233	0.0 $\pm$ 0.05V
2	Cover	---	TP11 (H) TP12 (E)	87.5MHz	L2102	1.1 $\pm$ 0.1V
			---	108.0MHz	---	Confirm voltage of 108.0MHz is about 7.5V.
3	Tracking	FM Ant	TP13 (L) TP14 (R) TP15 (E)	90.0MHz 106.0MHz	L2101	Maximum
			---	98.0MHz	L2101	Confirm Auto Stop SENS. If SENS is bad,align L2101
4	Auto Stop	FM Ant	---	98.0MHz	L2101	

Anntena : IRE Loop(SG), Moduration : 1kHz 30%
 RF Level : dBuV EMF

2. AM

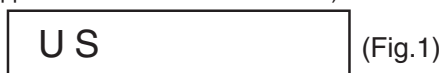
Output Level : about 100mV at TP13, TP14, TP15

Step	Adjusting Circuit	Connection		SG Frequency	Adjustment	Remark
		Input	Output			
1	IF Adjustment	Loop Ant	IC231 19Pin_DCCUT (TP26)-GND	522kHz	XF231	Maximum
2	Cover Voltage	---	TP11 (H) TP12 (E)	522kHz 1611kHz	---	Confirm voltage is > 0.8V. Confirm voltage is > 9.0V.
			---	---	---	---
3	Tracking	Loop Ant	TP13 (L) TP14 (R) TP15 (E)	603kHz 1404kHz	L2151-a	Maximum
			---	---	---	---

TUNER SETUP

1. DESTINATION SETTING

- 1.1 Press "POWER" button to turn on the power.
- 1.2 Change to "AUX Function" or "DVD/CD Function".
- 1.3 Press "SOUND" button and "POWER" button on the main unit at the same time.
- 1.4 Release "SOUND" button and "POWER" button at the same time, then within 1 second, press "TUNING(REV)" button on the main unit.
- 1.5 The present tuner destination appears on the LCD.
(See Fig.1)
(It appears for 3 seconds on the LCD)

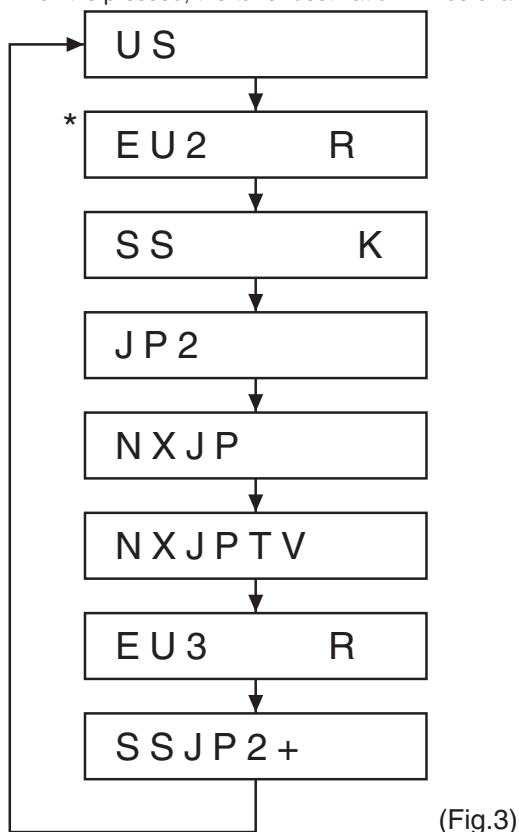


2. DESTINATION CHANGING

- 2.1 While the tuner destination appears on the LCD for 3 seconds, press "STOP" button. (Fig.1)
- 2.2 Tuner destination can be changed at this stage.(Fig.2)
LCD display will not disappear even after 3 seconds.



- 2.3 Whenever the "+TUNING(FWD)" button on the main unit is pressed, the tuner destination will be changed.



* This model setting is "EU2 R".

- 2.4 After the tuner destination is selected, press "POWER" button on the main unit 3 times.
(POWER OFF → POWER ON → POWER OFF)
Unplug and plug in the AC cord after that.
And check on the accuracy of the each setting.

3. RDS FUNCTION and KARAOKE FUNCTION SETTING

- 3.1 When the tuner destination selects, RDS function can be selected by pressing "PRESET(PREV)" button on the main unit.

* EU2 R	RDS function	YES
EU2	RDS function	NO

* This model setting is "EU2 R".

- 3.2 When the tuner destination selects, KARAOKE function can be selected by pressing "PRESET(NEXT)" button on the main unit.

SS K	KARAOKE function	YES
SS	KARAOKE function	NO

* This model has no KARAOKE function.

- 3.3 After "Tuner Destination", "RDS function" and "KARAOKE function" is selected, press "POWER" button on the main unit 3 times.
(POWER OFF → POWER ON → POWER OFF)
Unplug and plug in the AC cord after that.
And check on the accuracy of the each setting.

*TUNER initial setting

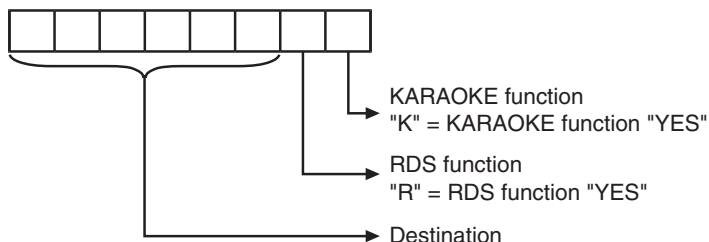
Destination "EU2" and "EU3" : RDS function "YES"
Destination "SS" : KARAOKE function "YES"

Here is the end. All settings are determined.

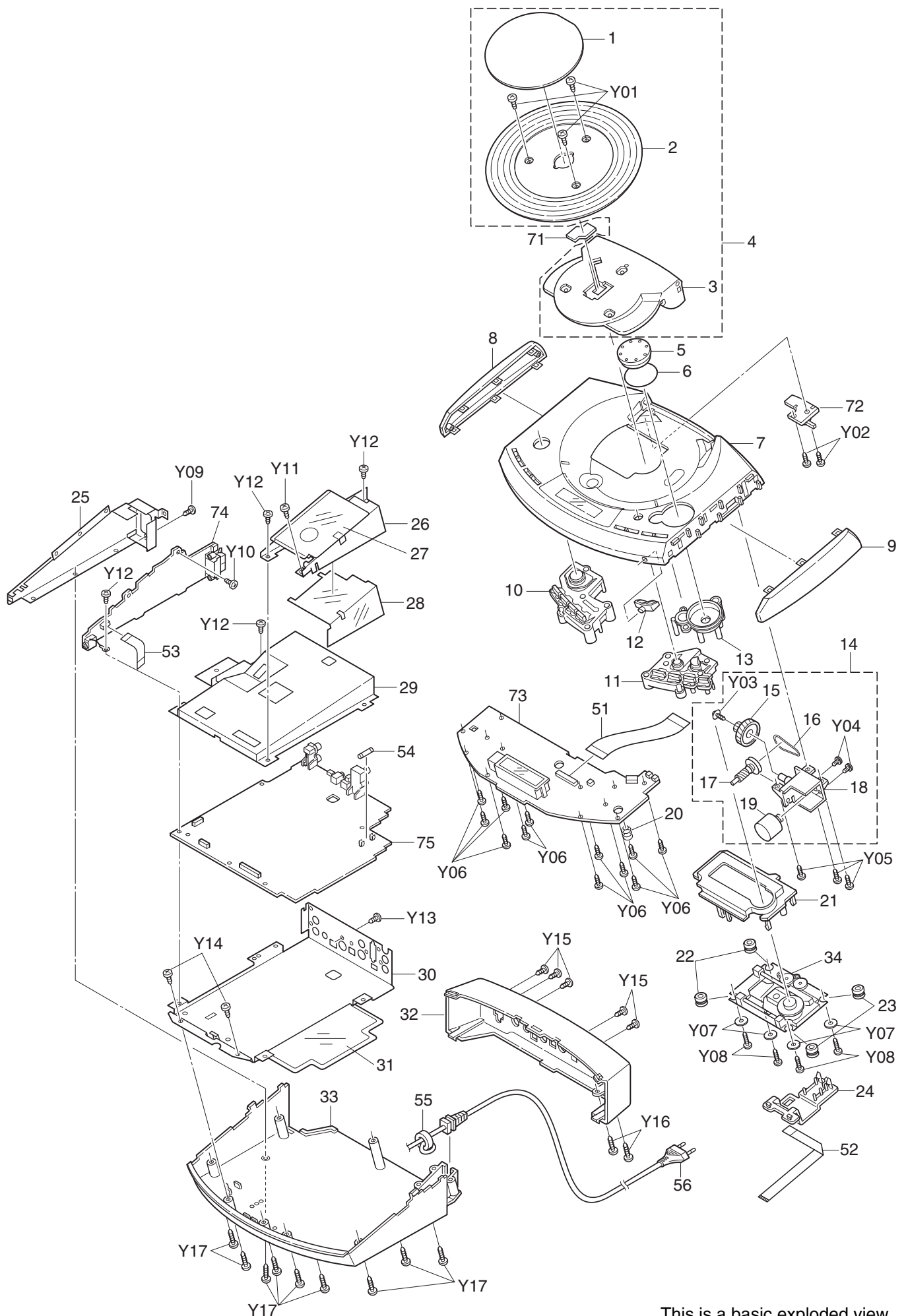
* NOTES

1. Tuner destination display can be changed while tuner functions.
2. Tuner destination setting can be initialized by RAM CLEAR (Initialization).

LCD DISPLAY



EXPLODED VIEW (CABINET & CHASSIS)



This is a basic exploded view.

PARTS LIST

PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL Δ IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY Δ , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.
Regular type resistors are less than 1/4 W carbon type and 0 ohm chip resistors.
Regular type capacitors are less than 50 V and less than 1000 μ F type of Ceramic type and Electrical type.

N.S.P : Not available as service parts.

PACKING & ACCESSORIES

REF.NO.	PART NO.	DESCRIPTION
	614 328 5175	CARTON CASE
	614 327 1673	CUSHION,L
	614 327 1680	CUSHION,R
	614 328 5205	INSTRUCTION MANUAL
	614 329 5419	INSTRUCTION MANUAL,GREEK
	645 041 1533	POLY SHEET-0750X0500*NC,SET
	645 045 3540	POLY SHEET-1100X0600*NC, SPEAKER
or	614 229 4635	FM ANTENNA
	614 308 5515	FM ANTENNA
	645 063 4031	LOOP,AM LOOP ANTENNA
	645 064 7819	REMOCON,RB-PT100RDS
or	645 063 5052	CABLE,AUDIO
	645 064 7994	CABLE,AUDIO
	614 327 5664	ASSY,WIRE
	645 066 9330	CABLE,VIDEO
	614 329 0995	ASSY,BOX,SPEAKER,FRONT

REF.NO.	PART NO.	DESCRIPTION
33	614 327 2618	ASSY,CABINET,BOTTOM
34	614 327 4438	500AVST3 SE BA, MECHANISM ASSY

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 021 6405	SCR S-TPG BIN 3X8,LID+WINDOW
Y02	411 165 3803	SCR S-TPG BIN 2.3X10,SW PWB
Y03	411 187 1801	SCR S-TPG PAN+FLG 2X10,GEAR
Y04	411 044 7502	SCR PAN+SW 2X5,MOTOR
Y05	411 165 3803	SCR S-TPG BIN 2.3X10,ASSY,GEAR
Y06	411 165 3803	SCR S-TPG BIN 2.3X10,TOP PWB
Y07	411 092 0906	WASHER Z 2.6X10X0.5,DVD MECHA
Y08	411 021 1806	SCR S-TPG BIN 2.6X10,DVD MECHA
Y09	411 021 4104	SCR S-TPG BIN 3X12, TU PWB+SHIELD
Y10	411 021 6405	SCR S-TPG BIN 3X8, TU PWB+SHIELD
Y11	411 021 6405	SCR S-TPG BIN 3X8, SHIELD,PWR+BOTTOM
Y12	411 021 6405	SCR S-TPG BIN 3X8, DVD PWB-SHIELD
Y13	411 021 4104	SCR S-TPG BIN 3X12, DVD PWB-SHIELD
Y14	411 021 6405	SCR S-TPG BIN 3X8, SHIELD+BOTTOM
Y15	411 021 4104	SCR S-TPG BIN 3X12, REAR+SOCKET
Y16	411 021 4005	SCR S-TPG BIN 3X12, BOTTOM+REAR
Y17	411 021 4005	SCR S-TPG BIN 3X12, TOP+BOTTOM

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 329 6188	DEC,SHEET,DVD
2	614 327 1468	DEC,WINDOW DVD
3	614 327 1574	LID,DVD
4	614 328 5069	ASSY,LID DVD
or	614 329 6157	ASSY,LID,DVD
5	614 327 1567	KNOB,VR,VOL.
6	614 328 4475	DEC,SHEET,JOG, CAB.TOP-KNOB,VR
7	614 327 1338	ASSY,CABINET,TOP
8	614 327 1598	PANEL,SIDE,L
9	614 327 1604	PANEL,SIDE,R
10	614 327 2595	ASSY,BUTTON,L
11	614 327 2601	ASSY,BUTTON,R
12	614 327 1499	DEC,WINDOW,IR
13	614 327 1475	DEC,RING,VOL.
14	614 327 2625	ASSY,MOUNTING,GEAR
15	614 327 1536	GEAR,HERI-SPUR
16	614 327 1406	BELT,SQUARE
17	614 327 1543	GEAR,WORM-PULLEY
18	614 327 1581	MOUNTING,GEAR
19	645 032 5861	MOTOR,DC 0.2W
20	614 327 5541	SPRING,COMP,PWB, TOP
21	614 327 1451	COVER,MECHA,DVD
22	614 301 1552	SPACER,MECHA,DVD,MECHA
23	614 310 3899	SPACER,MECHA,DVD MECHA
24	614 327 1529	FIXER,PICK,FFC,DVD MECHA
25	614 327 1642	SHIELD,TU,L,TU PWB
26	614 327 4681	SHIELD,PWB,POWER,DVD
27	614 328 2150	SPACER,SHIELD
28	614 327 4674	SPACER,COVER, DVD(POWER) PWB
29	614 327 1628	SHIELD,DVD, TOP,DVD PWB
30	614 327 1635	SHIELD,DVD,BOTTOM,DVD PWB
31	614 328 4109	SPACER,PWB,BOTTOM,SHIELD
32	614 327 1437	CABINET,REAR

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION
51	645 061 4422	FLEXIBLE FLAT CABLE, MAIN-FRONT(28P)
52	645 061 4637	FLEXIBLE FLAT CABLE, MAIN-PICK(24P)
53	645 061 4415	FLEXIBLE FLAT CABLE, MAIN-TUNER(15P)
54	Δ 423 028 8207	FUSE 250V 1A,250V 1A
55	645 051 0649	CORE,FERRITE, FOR AC CORD
or	645 031 7637	CORE,FERRITE, FOR AC CORD
56	Δ 645 061 4965	CORD,POWER-1.76MK, FOR XE

PARTS LIST

LED P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 327 2670	ASSY,PWB,LED(Only initial)
D6901	408 052 7808	LED SECU4L01C*,AQUA BLUE
D6902	408 052 7709	LED SECU4E01C*,BLUE

SWITCH P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 328 1955	ASSY,PWB,SW(Only initial)
CN681	645 005 8134	PLUG,8P
CN682	645 038 4035	PLUG,3P
CN683	645 017 0713	PLUG,2P
S6801	645 057 5785	SWITCH,LEVER

FRONT P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	614 327 2786	ASSY,PWB,FRONT(Only initial)
BRC60	614 327 1444	COVER,LED
BRH60	614 327 1550	HOLDER,LCD
BRS60	614 327 1512	DEC,SHEET,LCD
CN601	645 062 2618	SOCKET,FPC 28P
CN603	645 006 0908	PLUG,2P
CN604	645 061 4569	SOCKET,FPC 11P
CN605	614 327 6470	ASSY,WIRE
CN606	645 004 2683	PLUG,2P
D6000	407 012 4406	DIODE 1SS133
D6001	407 012 4406	DIODE 1SS133
D6002	407 012 4406	DIODE 1SS133
D6003	407 012 4406	DIODE 1SS133
D6021	407 099 9103	ZENER DIODE MTZJ27B
D6070	407 233 4803	LED SELU2L10C
DS601	407 233 3806	PHOTO DIODE SPS-447-1-VG
IC601	409 350 8009	IC LC75854E
LCD60	645 061 4521	LCD
Q6032	405 109 9204	TR KRC102M-A
or	405 000 3103	TR DTC114ES
Q6033	405 109 9204	TR KRC102M-A
or	405 000 3103	TR DTC114ES
Q6071	405 109 9204	TR KRC102M-A
or	405 000 3103	TR DTC114ES
Q6072	405 110 5400	TR KRA102M-A
or	405 000 0508	TR DTA114ES
S6001	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6002	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6003	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6004	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6005	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6006	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6007	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT

REF.NO.	PART NO.	DESCRIPTION
S6008	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6009	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6010	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6011	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6050	645 031 8078	SWITCH,ROTARY(ENCODER)

TUNER P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 328 4222	ASSY,PWB,TUNER(Only initial)
B2101	645 006 3602	INDUCTOR,1.1UH
CN201	645 057 1909	TERMINAL,TUNER
CN203	645 004 2683	PLUG,2P
CN241	645 059 0481	SOCKET,FPC 15P
CN291	645 031 4315	JACK,PHONE D3.6
D2151	407 149 0807	DIODE 1SS355
D2301	407 063 9108	ZENER DIODE MTZJ6.8B
D2451	407 149 0807	DIODE 1SS355
D2452	407 153 7502	ZENER DIODE GZS3.0B
D2466	407 221 1906	DIODE KDS121E
or	407 162 8507	DIODE DAN222
IC231	409 474 3201	IC LA1844ML
IC241	409 439 4502	IC LC72121M-D
IC251	409 447 3900	IC LC72722
L2151	645 063 0163	TUNER
L2451	645 001 4581	INDUCTOR,100U K
L2501	645 001 4581	INDUCTOR,100U K
L2502	645 001 4581	INDUCTOR,100U K
L2503	△ 645 004 0511	INDUCTOR,270U J
L2901	645 006 9864	INDUCTOR,80U
L2902	645 006 9864	INDUCTOR,80U
L2903	645 001 4550	INDUCTOR,10U K
LG201	614 129 9082	LUG,HP-GNDTOBOTTOM-GND
Q2140	405 146 2107	TR KTC3875-Y
or	405 146 2206	TR KTC3875-GR
or	405 014 4509	TR 2SC2412K-R
or	405 011 1006	TR 2SC1623-L6
Q2201	405 151 4202	TR KTC3193-O
or	405 151 4103	TR KTC3193-Y
or	405 016 0806	TR 2SC2839-E
Q2310	405 146 2107	TR KTC3875-Y
or	405 146 2206	TR KTC3875-GR
or	405 014 4509	TR 2SC2412K-R
or	405 011 1006	TR 2SC1623-L6
Q2451	405 151 6107	TR KRA107S
or	405 141 5707	TR DTA114YKA
Q2502	405 151 6107	TR KRA107S
or	405 141 5707	TR DTA114YKA
Q2901	405 166 7007	TR KTD1304
Q2902	405 166 7007	TR KTD1304
SG291	645 055 3202	SURGE-ABSORBER
SG292	645 055 3202	SURGE-ABSORBER
SG293	645 055 3202	SURGE-ABSORBER
U2101	645 043 6697	TUNER,FM
X2451	645 023 4965	OSC,CRYSTAL 7.2MHZ
X2501	645 035 8326	OSC,CRYSTAL 4.332MHZ
XF221	645 010 0079	CERAMIC FILTER 10.70MHZ
or	614 240 2917	FILTER,CERAM
or	614 254 3214	FILTER

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
XF222	645 010 0079	CERAMIC FILTER 10.70MHZ
or	614 240 2917	FILTER,CERAM
or	614 254 3214	FILTER
XF231	614 246 0849	FILTER
XF233	645 039 9923	TRANS,IF 10.7MHZ

MAIN P.W.BOARD ASSY

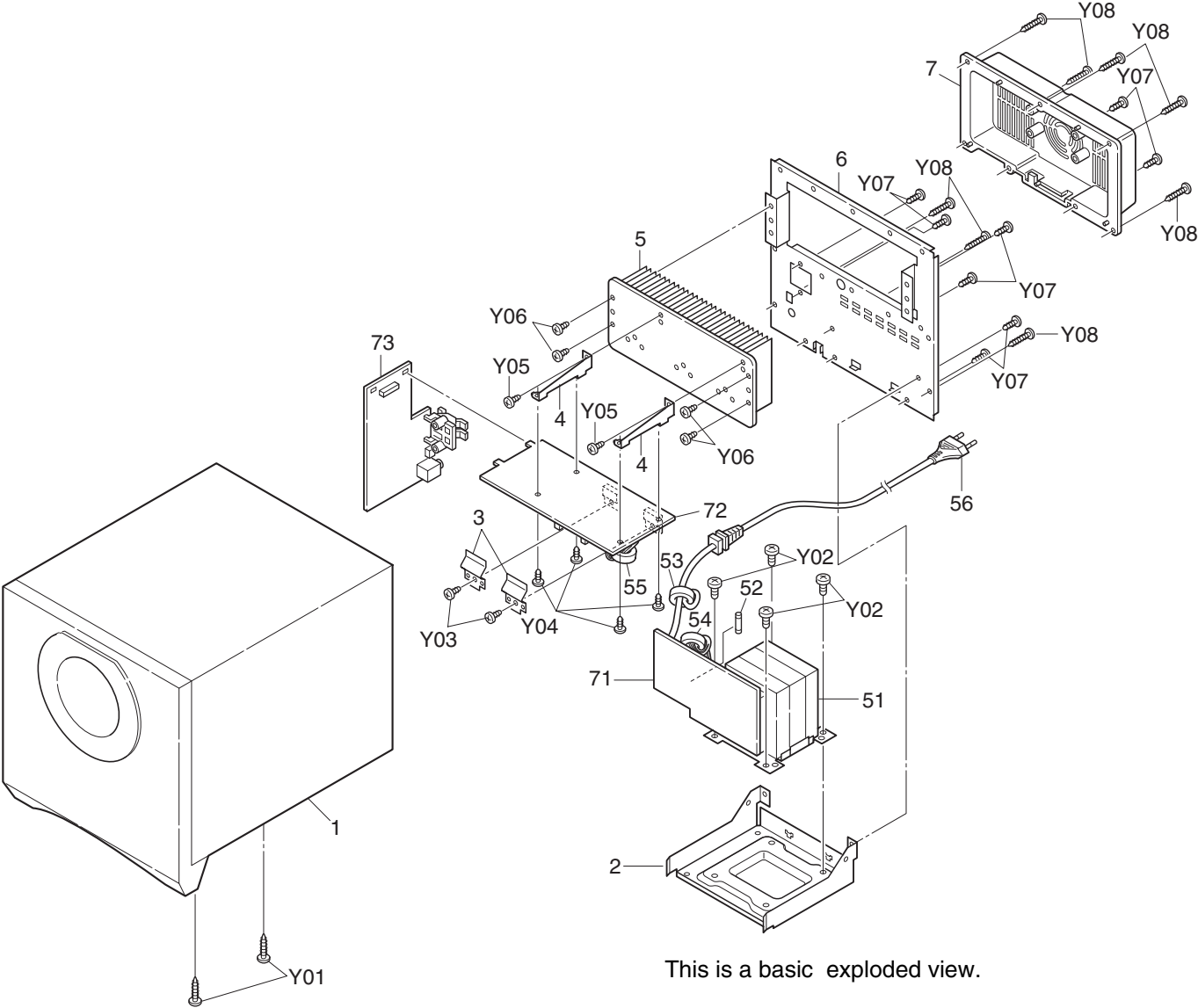
REF.NO.	PART NO.	DESCRIPTION
75	614 328 1603	ASSY,PWB,MAIN(Only initial)
C4905	403 260 3505	ELECT 10U M 400V
or	403 395 9007	ELECT 10U M 400V
C4907	△ 404 088 7409	MT-POLYEST 0.1U K 250V
or	△ 404 080 8206	MT-POLYEST 0.1U K 250V
or	△ 403 376 2409	MT-POLYEST 0.1U M 250V
C4908	△ 404 080 8107	CERAMIC 2200P M 400V
C4909	△ 404 080 8107	CERAMIC 2200P M 400V
C4911	△ 404 088 7409	MT-POLYEST 0.1U K 250V
or	△ 404 080 8206	MT-POLYEST 0.1U K 250V
or	△ 403 376 2409	MT-POLYEST 0.1U M 250V
C4921	△ 403 348 1508	MT-POLYEST 0.022U K 400V
C4958	403 184 9003	MT-POLYEST 0.022U J 50V
CN100	645 057 2951	SOCKET,FPC 24P
or	645 037 6207	SOCKET,FFC 24P
CN480	645 061 4453	JACK,RCA-2
or	645 068 3862	JACK,RCA-2
CN481	645 059 0481	SOCKET,FPC 15P
CN482	645 062 2601	SOCKET,FPC 28P
CN483	645 063 9098	JACK,PHONE D3.6
CN484	645 006 1882	PLUG,3P
CN870	645 057 9325	TERMINAL,BOARD, S/COMPOSITE(W-SHIELD)
CN871	407 234 1801	PHOTO COUPLE GP1FA513TZM
D4700	407 012 4406	DIODE 1SS133
D4701	407 012 4406	DIODE 1SS133
D4780	407 012 4406	DIODE 1SS133
D4850	407 099 6003	ZENER DIODE MTZJ9.1B
D4902	407 012 4406	DIODE 1SS133
D4903	407 099 5303	ZENER DIODE MTZJ5.6B
D4904	△ 407 004 9808	DIODE DSK10E
or	△ 407 012 0408	DIODE 1N4004
or	△ 407 004 9808	DIODE DSK10E
D4905	△ 407 004 9808	DIODE DSK10E
or	△ 407 012 0408	DIODE 1N4004
or	△ 407 004 9808	DIODE DSK10E
D4906	△ 407 004 9808	DIODE DSK10E
or	△ 407 012 0408	DIODE 1N4004
or	△ 407 004 9808	DIODE DSK10E
D4907	△ 407 004 9808	DIODE DSK10E
or	△ 407 012 0408	DIODE 1N4004
or	△ 407 004 9808	DIODE DSK10E
D4921	△ 408 043 6803	DIODE RGP02-15EL-22C-012
D4950	△ 408 043 6704	DIODE RGP10GL-22C-012
D4951	407 099 6607	ZENER DIODE MTZJ12B
D4952	△ 408 044 7304	DIODE SB160L-19C2-004
D4953	△ 408 044 6307	DIODE SB140L 19C2-004
D4954	△ 408 043 6704	DIODE RGP10GL-22C-012
D4955	407 099 6607	ZENER DIODE MTZJ12B
FPC41	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
FPC42	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
IC100	409 564 4507	IC LA9703WLS-MPB
or	409 518 1507	IC LA9703WL-MPB
IC130	409 564 5702	IC LC78663NRW-UST
or	409 531 6107	IC LC78663NRW
IC131	410 433 0308	IC M11L416256SA-35T
IC160	409 478 0800	IC BA5937AFP
IC161	409 405 6301	IC BA6849FP
IC411	409 357 2901	IC NJM4556AL
IC470	410 500 6509	IC M38507M8-168FP,MICON
IC471	410 448 8405	IC S524A40X21-SCT0,EEPROM
or	410 448 8504	IC S524A40X21-SCB0,EEPROM
or	410 429 7908	IC AT24C02N-10SI-2.7,EEPROM

REF.NO.	PART NO.	DESCRIPTION
IC472	409 543 6409	IC KRX101U
IC473	409 505 0803	IC PST3627U,RESET
IC480	409 474 6103	IC LC75342M
IC481	409 448 7402	IC LA2610
IC490	△ 409 573 5601	IC STR-A6151
IC492	△ 409 517 5704	IC KA431AZTF
or	△ 409 508 2804	IC KIA431A
or	△ 409 508 2705	IC KIA431
or	△ 409 067 7203	IC L5431
IC493	△ 409 543 0100	IC PQ1X501M2Z
IC494	△ 409 509 9208	IC PQ070XZ01Z
IC495	△ 409 534 5800	IC PQ2L2182MS
IC800	409 546 2002	IC ZR36748
IC801	410 448 8405	IC S524A40X21-SCT0
or	410 448 8504	IC S524A40X21-SCB0
or	410 429 7908	IC AT24C02N-10SI-2.7
IC802	409 505 0803	IC PST3627U
IC806	410 430 9403	IC 74VHCT08AMTCX
IC818	410 489 6705	IC ASSY (IC SST39VF800A-70-4C-EK or SST39VF800-70-4C-EK or LE28DW8163T-70T-MPB or SST39VF800A-70-4C-EK,D)
IC822	410 470 5007	IC M12L16161A-7T
or	410 453 9602	IC LC3816161ET-70-MPB
or	409 482 0209	IC K4S161622D-TC80
or	409 482 0209	IC K4S161622D-TC80
IC859	409 489 9700	IC NC7SZ157P6
IC871	409 581 9400	IC PCM1755DBQ,DAC_2CH
IC881	409 543 6409	IC KRX101U
L1000	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM
L1002	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM
L1302	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM
L4700	645 001 4550	INDUCTOR,10U K
L4750	645 020 1882	INDUCTOR,1800 OHM
L4751	645 020 1882	INDUCTOR,1800 OHM
L4752	645 020 1882	INDUCTOR,1800 OHM
L4753	645 020 1882	INDUCTOR,1800 OHM
L4754	645 020 1882	INDUCTOR,1800 OHM
L4755	645 020 1882	INDUCTOR,1800 OHM
L4756	645 020 1882	INDUCTOR,1800 OHM
L4757	645 020 1882	INDUCTOR,1800 OHM
L4758	645 020 1882	INDUCTOR,1800 OHM
L4840	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM
L4841	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM
L4900	△ 645 057 4030	LINE FILTER
or	△ 645 045 8941	LINE FILTER
or	△ 645 038 2024	LINE FILTER
L4950	△ 645 048 4469	INDUCTOR,22U
or	△ 645 045 8613	INDUCTOR,10U
L4951	△ 645 048 4469	INDUCTOR,22U
or	△ 645 045 8613	INDUCTOR,10U
L8060	645 034 7887	INDUCTOR,1000 OHM
or	645 020 1813	INDUCTOR,1000 OHM
or	645 045 7869	IMPEDANCE,1000 OHM P
or	645 020 2001	INDUCTOR,1000 OHM

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
L8202	645 034 7887	INDUCTOR,1000 OHM	or	405 141 5707	TR DTA114YKA
or	645 020 1813	INDUCTOR,1000 OHM	Q4793	405 159 0503	TR KRC107S
or	645 045 7869	IMPEDANCE,1000 OHM P	or	405 141 5608	TR DTC114YKA
or	645 020 2001	INDUCTOR,1000 OHM	Q4850	405 146 2107	TR KTC3875-Y
L8410	645 040 6430	INDUCTOR,2.2U M	or	405 146 2206	TR KTC3875-GR
L8420	645 040 6430	INDUCTOR,2.2U M	or	405 014 4509	TR 2SC2412K-R
L8440	645 040 6430	INDUCTOR,2.2U M	or	405 011 1006	TR 2SC1623-L6
L8582	645 034 7887	INDUCTOR,1000 OHM	Q4950	405 141 3109	TR KTC3203-Y
or	645 020 1813	INDUCTOR,1000 OHM	or	405 024 9907	TR 2SD734-F
or	645 045 7869	IMPEDANCE,1000 OHM P	or	405 025 0200	TR 2SD734-G
or	645 020 2001	INDUCTOR,1000 OHM	Q4953	405 141 3703	TR KTA1271-Y
L8701	645 034 7887	INDUCTOR,1000 OHM	or	405 008 2405	TR 2SB698-F
or	645 020 1813	INDUCTOR,1000 OHM	or	405 008 2504	TR 2SB698-G
or	645 045 7869	IMPEDANCE,1000 OHM P	Q4955	405 159 0503	TR KRC107S
or	645 020 2001	INDUCTOR,1000 OHM	or	405 141 5608	TR DTC114YKA
PC490	△ 407 234 8800	PHOTO COUPLE PC123X2YFZ	Q4956	405 159 0503	TR KRC107S
or	△ 407 220 4601	PHOTO COUPLE PC123Y22	or	405 141 5608	TR DTC114YKA
or	△ 407 203 8602	PC PS2561-1-V	Q4957	405 146 1704	TR KTA1504-Y
or	△ 407 234 8800	PHOTO COUPLE PC123X2YFZ	or	405 146 9700	TR KTA1504-GR
PR480	△ 645 042 2515	PROTECTOR,0.2A 125V	or	405 134 5905	TR 2SA1037AK-R
PR490	△ 645 042 2553	PROTECTOR,0.63A 125V	or	405 002 0308	TR 2SA1037K-R
PR491	△ 645 042 2553	PROTECTOR,0.63A 125V	or	405 005 5508	TR 2SA812-M6
PT490	△ 645 061 7812	TRANS,POWER,PULSE	R4908	△ 402 087 3408	RESISTOR 3.3M J- 1/2W
Q1002	405 146 2107	TR KTC3875-Y	or	△ 402 078 9501	CARBON 3.3M J- 1/2W
or	405 146 2206	TR KTC3875-GR	or	△ 402 078 8108	CARBON 3.3M J- 1/2W
or	405 014 4509	TR 2SC2412K-R	RN100	645 057 4252	R-NETWORK 8.2KX4 1/16W
or	405 011 1006	TR 2SC1623-L6	RN101	645 057 4290	R-NETWORK 47KX4 1/16W
Q1003	405 146 2107	TR KTC3875-Y	RN801	645 057 4238	R-NETWORK 33X4 1/16W
or	405 146 2206	TR KTC3875-GR	SG480	645 055 3202	SURGE-ABSORBER
or	405 014 4509	TR 2SC2412K-R	SG481	645 055 3202	SURGE-ABSORBER
or	405 011 1006	TR 2SC1623-L6	SG841	645 055 3202	SURGE-ABSORBER
Q1004	405 146 2107	TR KTC3875-Y	SG842	645 055 3202	SURGE-ABSORBER
or	405 146 2206	TR KTC3875-GR	SG872	645 055 3202	SURGE-ABSORBER
or	405 014 4509	TR 2SC2412K-R	WR490	614 017 8203	TERMINAL BOARD
or	405 011 1006	TR 2SC1623-L6	WR491	614 017 8203	TERMINAL BOARD
Q1005	405 158 5905	TR KTA1505-Y	X1500	645 059 7060	OSC,CERAMIC 16.93MHZ
or	405 035 5509	TR 2SA1036K-R	or	645 017 0157	OSC,CERAMIC 16.93MHZ
Q1006	405 158 5905	TR KTA1505-Y	or	645 065 2479	OSC,CERAMIC 16.93MHZ
or	405 035 5509	TR 2SA1036K-R	X4700	645 053 4393	OSC,CERAMIC 8.00MHZ
Q1016	405 146 2107	TR KTC3875-Y	X8230	645 053 4270	OSC,CRYSTAL 27.000MHZ
or	405 146 2206	TR KTC3875-GR	or	645 045 8293	OSC,CRYSTAL 27.000MHZ
or	405 014 4509	TR 2SC2412K-R			
or	405 011 1006	TR 2SC1623-L6			
Q1550	405 146 2107	TR KTC3875-Y			
or	405 146 2206	TR KTC3875-GR			
or	405 014 4509	TR 2SC2412K-R			
or	405 011 1006	TR 2SC1623-L6			
Q1551	405 146 2107	TR KTC3875-Y			
or	405 146 2206	TR KTC3875-GR			
or	405 014 4509	TR 2SC2412K-R			
or	405 011 1006	TR 2SC1623-L6			
Q1660	405 146 2107	TR KTC3875-Y			
or	405 146 2206	TR KTC3875-GR			
or	405 014 4509	TR 2SC2412K-R			
or	405 011 1006	TR 2SC1623-L6			
Q1661	405 159 0503	TR KRC107S			
or	405 141 5608	TR DTC114YKA			
Q4150	405 166 7007	TR KTD1304			
Q4151	405 166 7007	TR KTD1304			
Q4250	405 166 7007	TR KTD1304			
Q4251	405 166 7007	TR KTD1304			
Q4720	405 146 2107	TR KTC3875-Y			
or	405 146 2206	TR KTC3875-GR			
or	405 014 4509	TR 2SC2412K-R			
or	405 011 1006	TR 2SC1623-L6			
Q4790	405 146 1704	TR KTA1504-Y			
or	405 146 9700	TR KTA1504-GR			
or	405 134 5905	TR 2SA1037AK-R			
or	405 002 0308	TR 2SA1037K-R			
or	405 005 5508	TR 2SA812-M6			
Q4791	405 159 0503	TR KRC107S			
or	405 141 5608	TR DTC114YKA			
Q4792	405 151 6107	TR KRA107S			

EXPLODED VIEW (SUB WOOFER SPEAKER)



PARTS LIST (SUB WOOFER SPEAKER)
SUB WOOFER SPEAKER (ASX-PT100W/XE)

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 328 9302	ASSY,BOX,SPEAKER,(PROSONIC)
2	614 327 8504	HOLDER,POWER TRANS
3	614 316 1417	MOUNTING,IC,IC-HEAT SINK
4	614 327 8498	HOLDER,PWB
5	614 327 8436	ASSY,HEAT SINK
6	614 328 2105	PANEL,REAR
7	614 327 8474	COVER,HEAT,SINK

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 027 3408	SCR S-TPG BIN 4X16, HOLDER P.T-SP BOX
Y02	411 001 3905	SCR S-TPG BIN 4X6,PT
Y03	411 021 6405	SCR S-TPG BIN 3X8,IC-HEAT SINK
Y04	411 021 6405	SCR S-TPG BIN 3X8, PWB-HOLDER PWB
Y05	411 021 6405	SCR S-TPG BIN 3X8, HOLDER PWB-HEAT SINK
Y06	411 021 3503	SCR S-TPG BIN 3X10

REF.NO.	PART NO.	DESCRIPTION
Y07	411 021 3701	SCR S-TPG BIN 3X10, HOLDER P.T-P.REAR, COVER H.S-P.REAR, E.PARTS-P.REAR
Y08	645 046 8216	SCREW,P.REAR-SP.BOX

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION
51	△ 645 061 4583	TRANS,POWER,PT100_UK
52	△ 423 028 8207	FUSE 250V 1A
53	645 051 0649	CORE,FERRITE,FOR AC CORD
or	645 031 7637	CORE,FERRITE,FOR AC CORD
54	645 051 0656	CORE,FERRITE,FOR CN391
or	645 042 8999	CORE,FERRITE,FOR CN391
55	645 051 0656	CORE,FERRITE,FOR LEAD WIRE
or	645 042 8999	CORE,FERRITE,FOR LEAD WIRE
56	△ 645 063 0255	CORD,POWER-1.76MK,XE

PARTS LIST

POWER TRANSFORMER P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 327 4308	ASSY,PWB,MAIN,PT(Only initial)
C3900	△ 403 349 3303	CERAMIC 0.01U M 250V
or	△ 403 366 7803	CERAMIC 0.01U M 250V
CN390	614 020 1239	SOCKET,4P
CN391	614 328 1993	ASSY,WIRE
D3900	407 012 4406	DIODE 1SS133
FPC38	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
FPC39	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
L3900	△ 645 038 7364	INDUCTOR,70U
or	△ 645 059 0467	INDUCTOR,13U
LUG01	645 006 4425	FIXER
RY390	△ 645 059 0306	RELAY,PRIMARY
or	△ 645 030 5597	RELAY,PRIMARY
or	△ 645 035 6575	RELAY,PRIMARY
WR390	614 017 8203	TERMINAL BOARD
WR391	614 017 8203	TERMINAL BOARD

MAIN P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 329 5105	ASSY,PWB,MAIN(Only initial)
C3004	403 325 0302	ELECT 2200U M 25V
C3008	403 325 0302	ELECT 2200U M 25V
C3210	403 184 9805	MT-POLYEST 0.22U J 50V
C3211	403 184 9805	MT-POLYEST 0.22U J 50V
C3213	403 184 9805	MT-POLYEST 0.22U J 50V
C3214	403 184 9805	MT-POLYEST 0.22U J 50V
C3405	403 185 0108	MT-POLYEST 0.47U J 50V
C3406	403 185 0108	MT-POLYEST 0.47U J 50V
C3408	403 184 9300	MT-POLYEST 0.047U J 50V
CN302	645 006 1790	PLUG,2P
CN303	645 005 7366	PLUG,2P
CN305	645 063 4864	PLUG,10P
CN311	645 006 1813	PLUG,4P
D3000	407 099 6805	ZENER DIODE MTZJ13B
D3001	407 099 6805	ZENER DIODE MTZJ13B
D3002	△ 407 196 5800	DIODE 1N5402BD82
D3003	△ 407 196 5800	DIODE 1N5402BD82
D3004	△ 407 196 5800	DIODE 1N5402BD82
D3005	△ 407 196 5800	DIODE 1N5402BD82
D3501	407 012 4406	DIODE 1SS133
D3502	407 012 4406	DIODE 1SS133
IC320	△ 409 472 5306	IC LM1876TF
IC330	409 426 1903	IC KIA4558F
or	409 039 7804	IC NJM4558M
IC340	△ 409 521 9200	IC LM4700TF
IC360	409 039 5404	IC NJM2058M
L3200	645 057 4405	INDUCTOR,0.7U
or	645 053 7493	INDUCTOR,0.7U
L3201	645 057 4405	INDUCTOR,0.7U
or	645 053 7493	INDUCTOR,0.7U
L3400	645 057 7673	INDUCTOR,AIR 0.7U
or	645 045 6206	INDUCTOR,AIR 0.7U
PR300	△ 645 042 2515	PROTECTOR,0.2A 125V
PR301	△ 645 042 2515	PROTECTOR,0.2A 125V
PR302	△ 645 042 2652	PROTECTOR,10A 125V
PR303	△ 645 042 2652	PROTECTOR,10A 125V
Q3000	405 143 0007	TR KRC107M
or	405 000 3806	TR DTC114YS
Q3001	405 141 3505	TR KTA1266-Y
or	405 141 3406	TR KTA1266-GR
or	405 004 4502	TR 2SA608-F-NP
or	405 004 5004	TR 2SA608-G-NP
Q3002	405 141 3208	TR KTC3198-Y
or	405 141 3307	TR KTC3198-GR
or	405 019 2708	TR 2SC536-F-NP
or	405 019 3804	TR 2SC536-G-NP
Q3003	405 143 0007	TR KRC107M
or	405 000 3806	TR DTC114YS

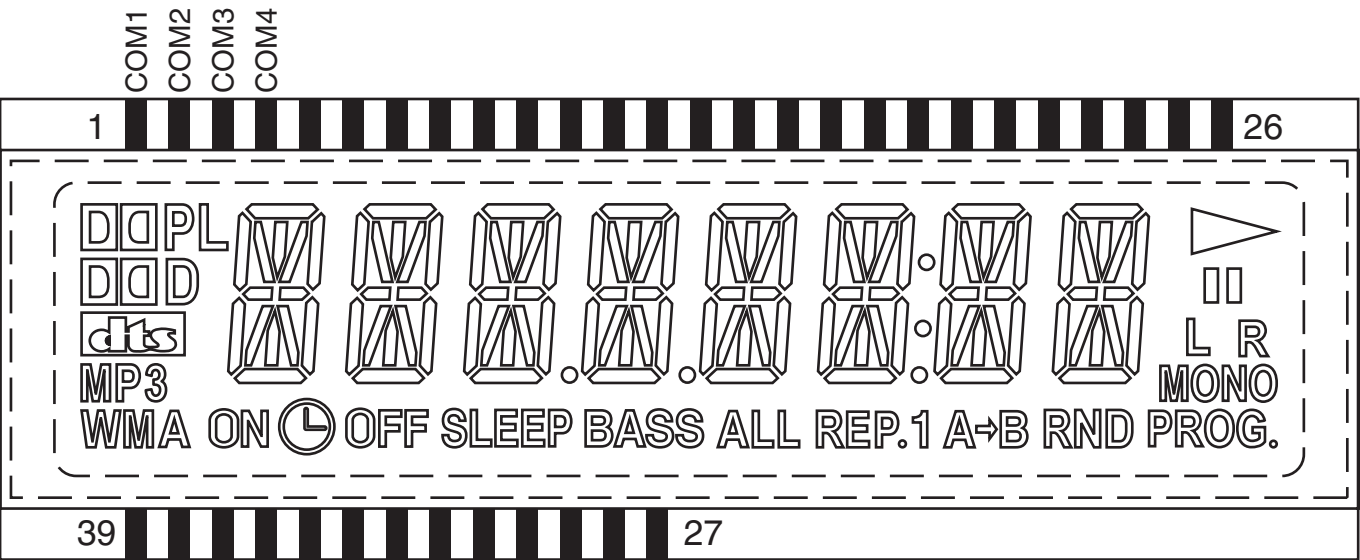
REF.NO.	PART NO.	DESCRIPTION
Q3200	405 151 4400	TR KTD1303
or	405 021 0204	TR 2SD1012-F-SPA
or	405 021 0600	TR 2SD1012-G-SPA
or	405 033 6706	TR 2SD1468S-R
or	405 033 6805	TR 2SD1468S-S
Q3201	405 151 4400	TR KTD1303
or	405 021 0204	TR 2SD1012-F-SPA
or	405 021 0600	TR 2SD1012-G-SPA
or	405 033 6706	TR 2SD1468S-R
or	405 033 6805	TR 2SD1468S-S
Q3400	405 151 4400	TR KTD1303
or	405 021 0204	TR 2SD1012-F-SPA
or	405 021 0600	TR 2SD1012-G-SPA
or	405 033 6706	TR 2SD1468S-R
or	405 033 6805	TR 2SD1468S-S
Q3500	405 141 3208	TR KTC3198-Y
or	405 141 3307	TR KTC3198-GR
or	405 019 2708	TR 2SC536-F-NP
or	405 019 3804	TR 2SC536-G-NP
Q3501	405 141 3208	TR KTC3198-Y
or	405 141 3307	TR KTC3198-GR
or	405 019 2708	TR 2SC536-F-NP
or	405 019 3804	TR 2SC536-G-NP
R3210	△ 402 082 1300	RESISTOR 4.7 J- 1W
R3211	△ 402 082 1300	RESISTOR 4.7 J- 1W
R3212	△ 402 082 2802	RESISTOR 10 J- 1W
R3213	△ 402 082 2802	RESISTOR 10 J- 1W
R3405	△ 402 082 8606	RESISTOR 2.2 J- 1W
R3406	△ 402 082 2802	RESISTOR 10 J- 1W

TERMINAL P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	614 329 5112	ASSY,PWB,TERMINAL(Only initial)
CN370	645 063 9098	JACK,PHONE D3.6
CN371	645 061 6990	TERMINAL,SPEAKER 2P
CN372	645 006 1882	PLUG,3P
CN373	645 005 8493	SOCKET,10P
L3700	645 006 3602	INDUCTOR,1.1UH
L3701	645 006 3602	INDUCTOR,1.1UH
L3702	645 006 3602	INDUCTOR,1.1UH
L3703	645 006 3602	INDUCTOR,1.1UH

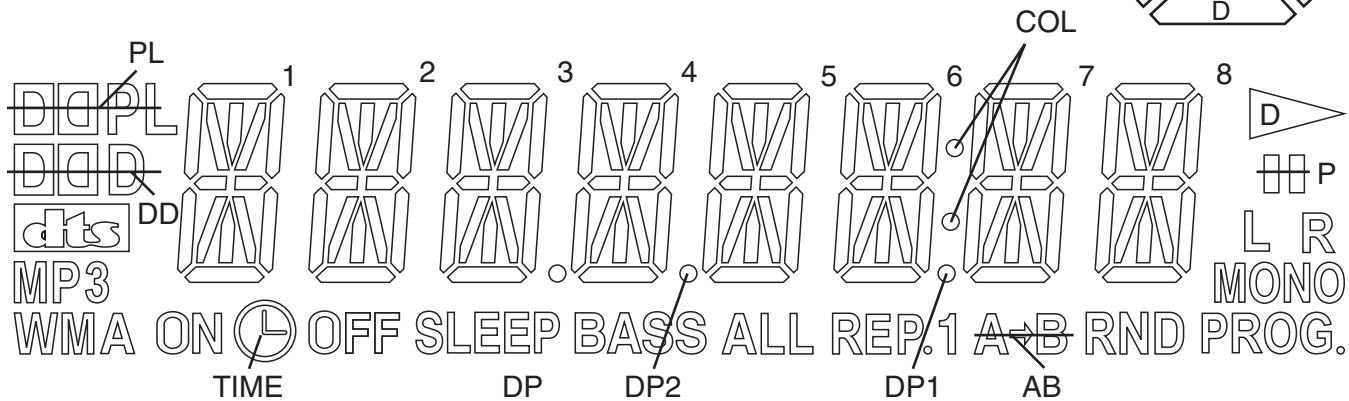
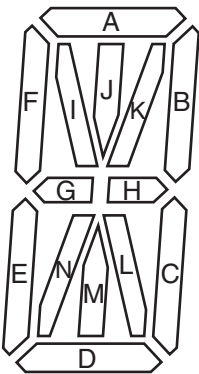
LCD DISPLAY

LCD60

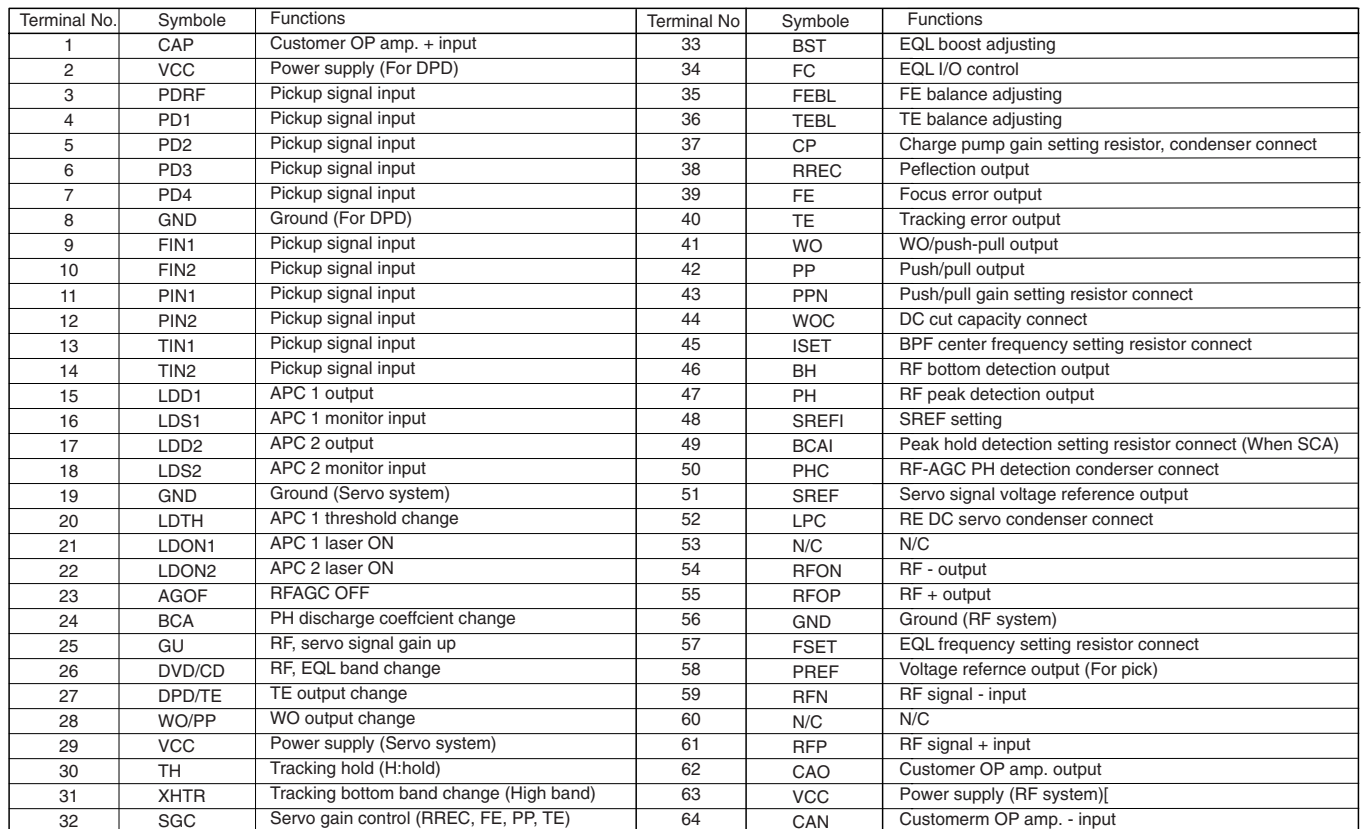


PAD NO.	COM1	COM2	COM3	COM4
1	--	--	--	--
2	--	COM2	--	--
3	--	--	COM3	--
4	1M	--	--	COM4
5	2M	1N	1J	1I
6	3M	2N	2J	2I
7	DP	3N	3J	3I
8	4M	3C	3H	3B
9	4D	4N	4J	4I
10	DP2	4L	4K	4A
11	5M	4C	4H	4B
12	5D	5N	5J	5I
13	6M	5L	5K	5A
14	6D	6N	6J	6I
15	DP1	6L	6K	6A
16	COL	7E	6H	6B
17	7M	7N	7G	7F
18	8M	8N	7J	7I
19	8D	8L	8J	8I
20	R	L	8K	8A

PAD NO.	COM1	COM2	COM3	COM4
21	R	L	P	D
22	MONO	8C	8H	8B
23	PROG.	8E	8G	8F
24	RND	7C	7H	7B
25	7D	7L	7K	7A
26	AB	6E	6G	6F
27	1	5C	5H	5B
28	REP.	5E	5G	5F
29	ALL	--	--	--
30	BASS	4E	4G	4F
31	3D	3L	3K	3A
32	SLEEP	3E	3G	3F
33	OFF	2C	2H	2B
34	2D	2L	2K	2A
35	TIME	2E	2G	2F
36	ON	1C	1H	1B
37	1D	1L	1K	1A
38	WMA	1E	1G	1F
39	MP3	dts	DD	PL

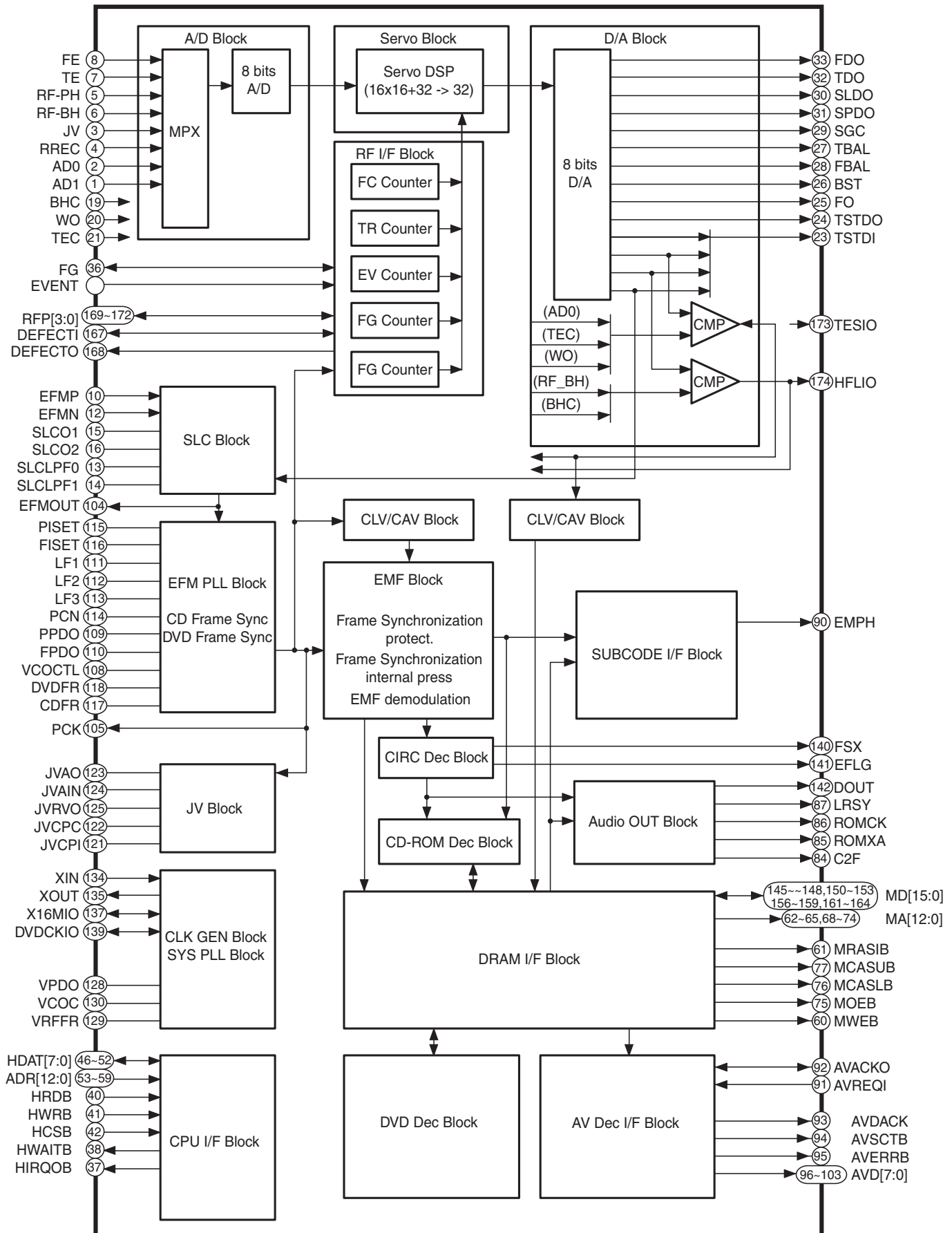


IC100 LA9703WL-MPB (DVD Player Frontend Processor)



IC BLOCK DIAGRAM & DESCRIPTION

IC130 LC78663NRW (DVD/CD Servo Controller)



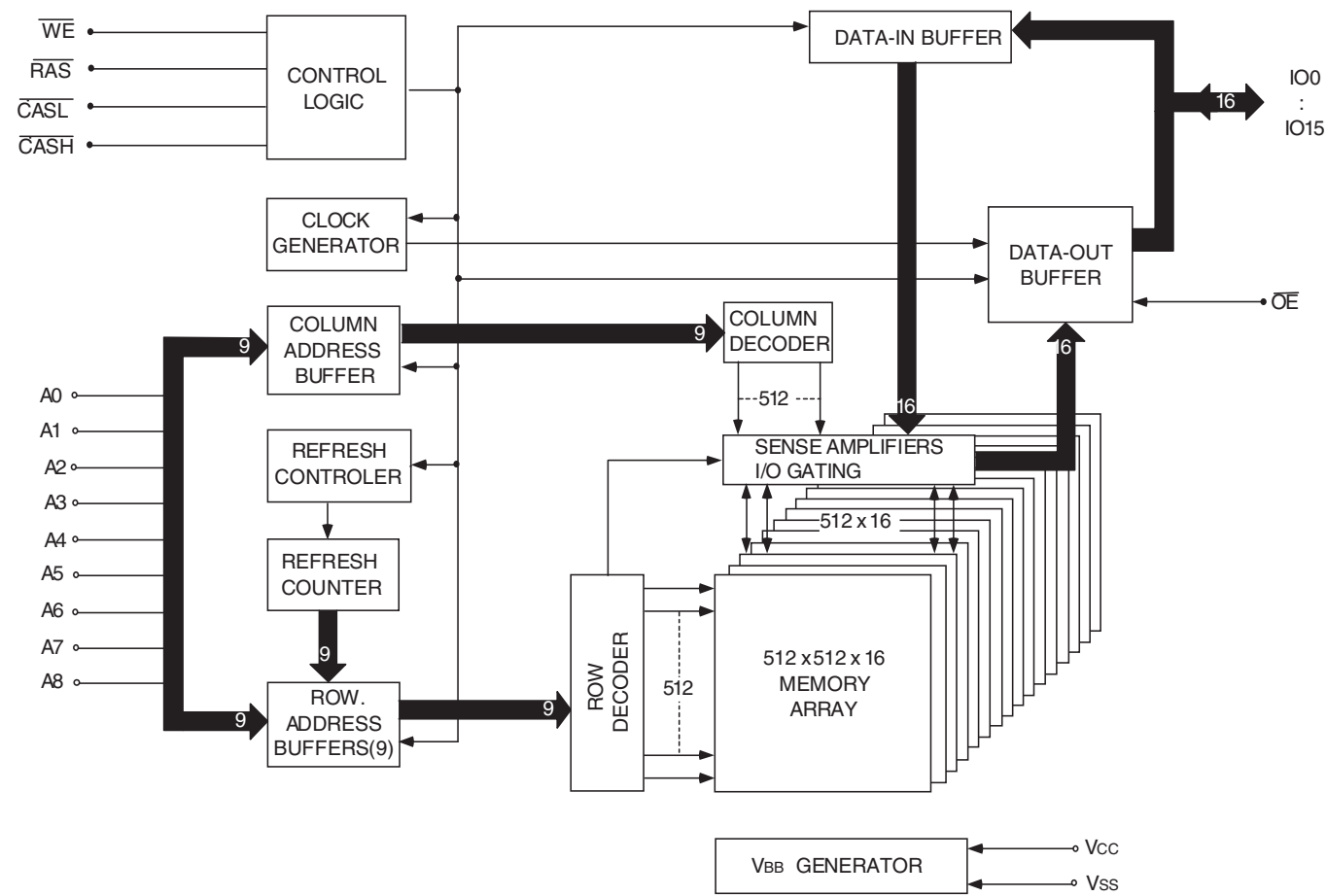
IC BLOCK DIAGRAM & DESCRIPTION

IC130 LC78663NRW (DVD/CD Servo Controller)

BLOCK	NO.	NAME	I/O	SUPPLEMENT	BLOCK	NO.	NAME	I/O	SUPPLEMENT
A/D	1	AD1	I	Servo A/D AD1	CD data AV data I/F	88	DVDD1	-	I/O power supply[Digital 3.3V]
	2	AD0	I	Servo A/D AD0		89	DVSS	-	Digital GND
	3	JV	I	Servo A/D JV		90	EMPH	O	DE-EMP monitor Monitor 0
	4	RREC	I	Servo A/D RREC		91	AVREQI	I	AV data requirement flag input
	5	RF-PH	I	Servo A/D RF_PH		92	AVACKO	O	AV data read strobe output
	6	RF-BH	I	Servo A/D RF_BH		93	AVDACK	O	AV data read output
	7	TE	I	Servo A/D TE		94	AVSCTB	O	AV output sector synchronous output
	8	FE	I	Servo A/D FE		95	AVERRB	O	AV data reliability flag output
Test terminal	9	TEST0	I	Test input 0(Input: "L" level fixed)	RF I/F	96	AVD0	O	AV data bus 0
SLC	10	EFMINP	I	EFM/EFMI input		97	AVD1	O	AV data bus 1
Test terminal	11	TEST1	I	Test input 1(Input: "L" level fixed)		98	AVD2	O	AV data bus 2
Power supply	12	EFMINN	I	EFM- Input		99	AVD3	O	AV data bus 3
	13	SLCLPF0	-	SLC		100	AVD4	O	AV data bus 4
	14	SLCLPF1	-	SLC		101	AVD5	O	AV data bus 5
	15	SLCO1	-	SLC		102	AVD6	O	AV data bus 6
	16	SLCO2	-	SLC		103	AVD7	O	AV data bus 7
CMP	17	AVDDI	-	A/D D/A SLC power supply(Analog 3.3V)	Power supply	104	EFMOUT	O	EFM 2 value signal output
	18	AVSS	-	Analog GND		105	PCK	O	EFM playback shift clock output
	19	BHC	I	Comparator input(RF_BH C)		106	DVDD0	-	Internal logic power supply(Digital 2.5V)
D/A	20	WO	I	Comparator input	EFM PLL	107	DVSS	-	Digital GND
	21	TEC	I	Comparator input(TE C)		108	VCOCTL	-	VCO filter connect
	22	VREF	O	Servo D/A voltage reference		109	PPDO	-	Phase comparison filter connect
	23	TSTDI	O	Servo D/A TSTDO		110	FPDO	-	Frequency comparison filter connect
	24	TSTDO	O	Servo D/A TSTDO		111	LF1	-	Filter connect 1
	25	FO	O	Servo D/A FO		112	LF2	-	Filter connect 2
	26	BST	O	Servo D/A BST		113	LF3	-	Filter connect 3
	27	TBAL	O	Servo D/A TBAL		114	PCS	-	Voltaji monitor(Charge pump PCH control voltage)
	28	FBAL	O	Servo D/A FBAL		115	PISET	-	Constant-current charge pump current set of phase comparison
	29	SGC	O	Servo D/A SGC		116	FISET	-	Constant-current charge pump current set of frequency comparison
	30	SLDO	O	Servo D/A SLDO		117	CDFR	-	EFM playback PLL VCO oscillation range set[CD]
	31	SPDO	O	Servo D/A SPDO		118	DVDFR	-	EFM playback PLL VCO oscillation range set[DVD]
	32	TDO	O	Servo D/A TDO		119	AVDD2	-	EFM PLL, JV power supply[Analog 3.3V]
	33	FDO	O	Servo D/A FDO		120	AVSS	-	Analog GND
	34	DVDD0	-	Power supply for internal logic(Digital 2.5V)	JV	121	JVCPI	-	JV
Power supply	35	DVSS	-	Digital GND		122	JVCPC	-	JV
RF I/F	36	FG	I/O	FG counter input General port I/O 1		123	JVAO	O	EFM playback PLL clock jitter output
Micro-computer I/F	37	HIRQB	O	Interrupt signal output		124	JVAIN	-	JV
	38	HWAIB	O	Wait signal output		125	JVRVO	-	JV
	39	HRESB	I	Servo reset input	Power supply	126	AVDD3	-	System PLL power supply[Analog 2.5V]
	40	HRDB	I	Read signal input		127	AVSS	-	Analog GND
	41	HWRB	I	Write signal input	System CLK	128	VPDO	-	System PLL filter connect
Power supply	42	HCSB	I	Chip select signal input		129	VRPFR	-	System PLL VCO oscillation range set
	43	HDATO	I/O	Data bus 0		130	VCOCL	-	System PLL filter connect
	44	DVDD1	-	I/O power supply(Digital 3.3V)	Power supply	131	DVDD0	-	Internal logic power supply(Digital 2.5V)
	45	DVSS	-	Digital GND		132	DVSS	-	Digital GND
	46	HDAT1	I/O	Data bus 1		133	DVDD2	-	Oscillation circuit power supply(Digital 3.3V)
Micro-computer I/F	47	HDAT2	I/O	Data bus 2	System CLK	134	XIN	I	Oscillation circuit input
	48	HDAT3	I/O	Data bus 3		135	XOUT	O	Oscillation circuit output
	49	HDAT4	I/O	Data bus 4		136	DVSS	-	Digital GND
	50	HDAT5	I/O	Data bus 5	Power supply	137	X16M10	I/O	External 16MHz input and output
	51	HDAT6	I/O	Data bus 6		138	TEST2	I	Test input 2[Input "L" level setting]
	52	HDAT7	I/O	Data bus 7		139	DVDCK10	I/O	External DVD clock input and output
	53	HADR0	I	Address bus 0	Monitor	140	FSX	O	CD1 frame synchronous signal Monitor 6
	54	HADR1	I	Address bus 1		141	EFLG	O	C1 and C2 correction state Monitor 5
	55	HADR2	I	Address bus 2		142	DOUT	O	Audio EIAJ data output Monitor 7
	56	HADR3	I	Address bus 3	Power supply	143	DVDD1	-	I/O power supply[Digital 3.3V]
	57	HADR4	I	Address bus 4		144	DVSS	-	Digital GND
	58	HADR5	I	Address bus 5		145	MD8	I/O	DRAM data bus 8
	59	HADR6	I	Address bus 6	DRAM I/F	146	MD9	I/O	DRAM data bus 9
DRAM I/F	60	MWEB	O	WE output		147	MD10	I/O	DRAM data bus 10
	61	MRASIB	O	RAS output 1		148	MD11	I/O	DRAM data bus 11
	62	MA0	O	DRAM address bus 0	NC	149	NC	-	NC pin which fixed "H" or "L"(662:Digital GND)
	63	MA1	O	DRAM address bus 1		150	MD12	I/O	DRAM data bus 12
	64	MA2	O	DRAM address bus 2		151	MD13	I/O	DRAM data bus 13
NC	65	MA3	O	DRAM address bus 3	DRAM I/F	152	MD14	I/O	DRAM data bus 14
	66	NC	-	NC Pin which fixed "H" or "L" (662:DRAM power supply[Digital 3.3V])		153	MD15	I/O	DRAM data bus 15
	67	NC	-	NC Pin which fixed "H" or "L" (662:Digital GND)		154	NC	-	NC pin which fixed "H" or "L"(662:Digital GND)
	68	MA4	O	DRAM address bus 4	DRAM I/F	155	NC	-	NC pin which fixed "H" or "L" (662:DRAM power supply[Digital 3.3V])
	69	MA5	O	DRAM address bus 5		156	MD0	I/O	DRAM data bus 0
DRAM I/F	70	MA6	O	DRAM address bus 6		157	MD1	I/O	DRAM data bus 1
	71	MA7	O	DRAM address bus 7	NC	158	MD2	I/O	DRAM data bus 2
	72	MA8	O	DRAM address bus 8		159	MD3	I/O	DRAM data bus 3
	73	MA9	O	DRAM address bus 9		160	NC	-	NC pin which fixed "H" or "L" (662:DRSM power supply[Digital 3.3V])
	74	MA10	O	DRAM address bus 10	DRAM I/F	161	MD4	I/O	DRAM data bus 4
Micro-computer I/F	75	MOEB	O	OE output		162	MD5	I/O	DRAM data bus 5
	76	MCASUB	O	CAS output(Upper byte)		163	MD6	I/O	DRAM data bus 6
	77	MCASLB	O	CAS output(Low byte)	Power supply	164	MD7	I/O	DRAM data bus 7
	78	HADR7	I	Address bus 7		165	DVDD1	-	I/O power supply[Digital 3.3V]
	79	HADR8	I	Address bus 8		166	DVSS	-	Digital GND
CD data	80	HADR9	I	Address bus 9	RF I/F	167	DEFECT1	I/O	Defect signal input General port I/O 0
	81	HADR10	I	Address bus 10		168	DEFECT0	O	Defect signal output
	82	HADR11	I	Address bus 11		169	RFP0	I/O	RF general port I/O 0 WRQ output
	83	HADR12	I	Address bus 12	Power supply	170	RFP1	I/O	RF general port I/O 1
				Buffer memory access selector[MCSB]		171	RFP2	I/O	RF general port I/O 2 HBUSYB output
CD data	84	C2F	O	C2 frag output Monitor 4		172	RFP3	I/O	RF general port I/O 3 HFBUSYB output
	85	ROMXA	O	CD data output Monitor 3	Power supply	173	TESIO	I/O	Tracking error signal I/O
	86	ROMCK	O	Sift clock output for CD data output Monitor 2		174	HFLIO	I/O	Mirror detection signal I/O
	87	LRSY	O	L/R clock output for CD data output Monitor 1		175	DVDD0	-	Internal logic power supply[Digital 2.5V]
						176	DVSS	-	Digital GND

IC BLOCK DIAGRAM & DESCRIPTION

IC131 M11L416256SA-35T(DRAM)

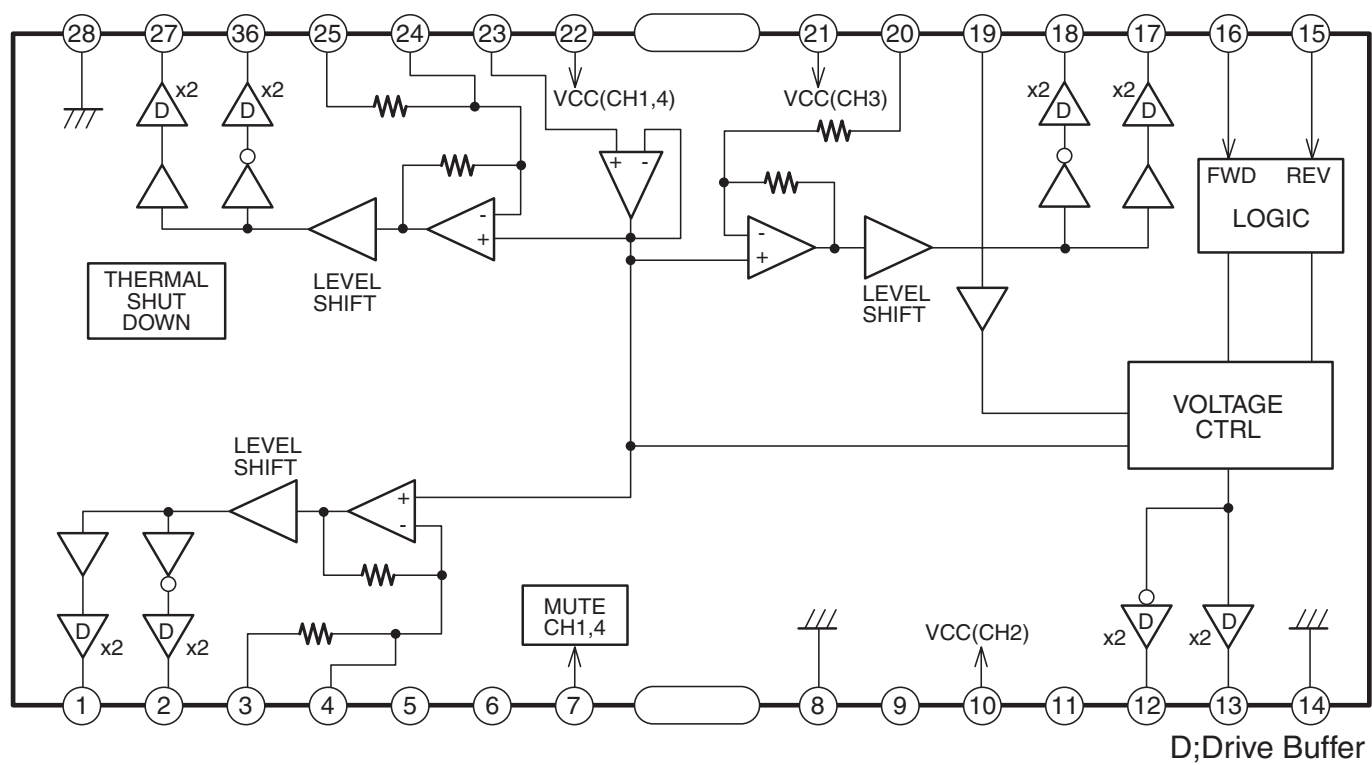


PIN DESCRIPTIONS

PIN NO.	PIN NAME	TYPE	DESCRIPTION
16~19,22~26	A0~A8	Input	Address Input Row Address : A0~A8 Column Address : A0~A8
14	RAS	Input	Row Address Strobe
28	CASH	Input	Column Address Strobe / Upper Byte Control
29	CASL	Input	Column Address Strobe / Lower Byte Control
13	WE	Input	Write Enable
27	OE	Input	Output Enable
2~5,7~10,31~34,36~39	I/O0 ~ I/O15	Input / Output	Data Input / Output
1,6,20	Vcc	Supply	Power, 3.3V
21,35,40	Vss	Ground	Ground
11,12,15,30	NC	-	No Connect

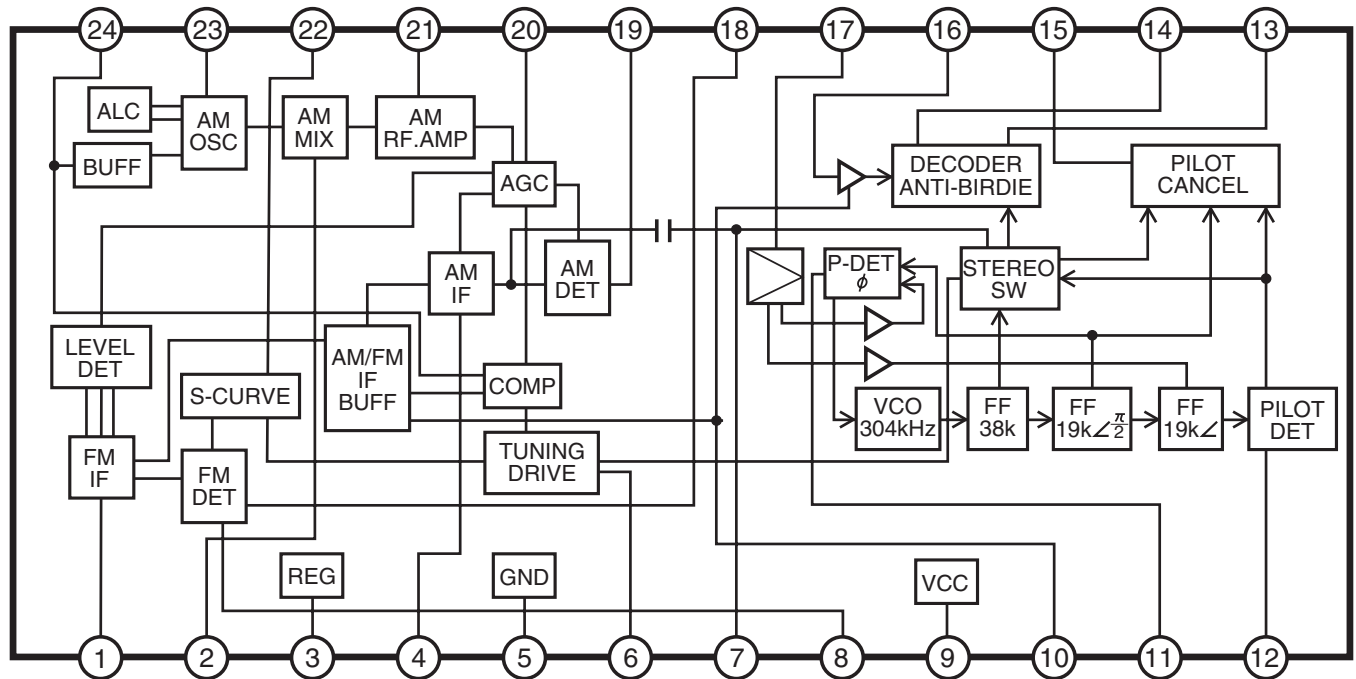
IC BLOCK DIAGRAM & DESCRIPTION

IC160 BA5937AFP (Power Driver for CD)



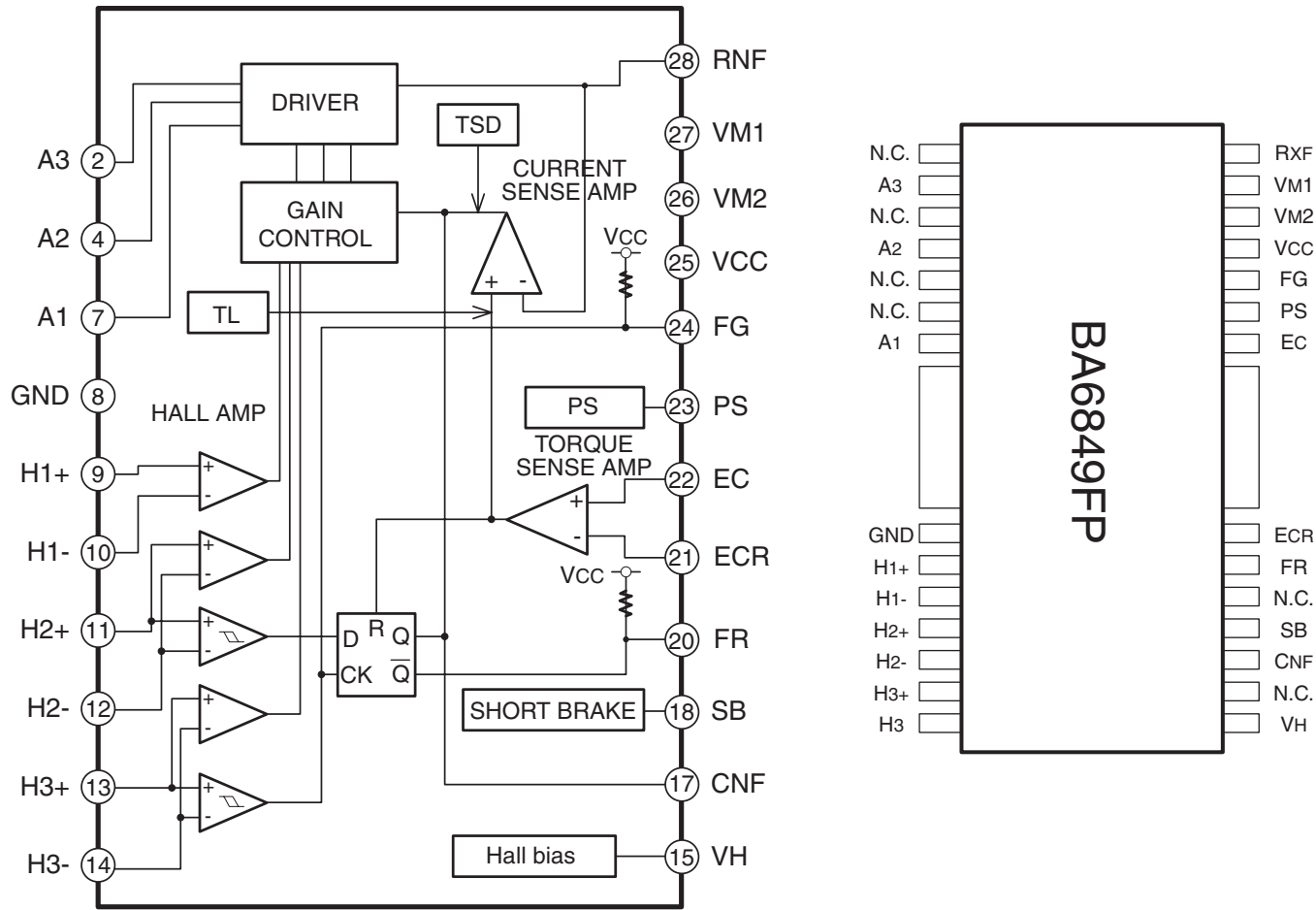
Pin No.	Pin name	Function	Pin No.	Pin name	Function	Pin No.	Pin name	Function
1	OUT1-1	Channel 1 negative output	10	Vcc2	Vcc (channel 2)	20	IN3	Channel 3 input
2	OUT1-2	Channel 1 positive output	11	N.C.	N.C.	21	Vcc3	Vcc (channel 3)
3	IN1-1	Channel 1 input	12	OUT2-2	Loading motor positive output	22	Vcc1	Vcc (channels 1 and 4)
4	IN1-2	Input for channel 1 gain adjustment	13	OUT2-1	Loading motor negative output	23	VrefIN	Bias amplifier input
5	N.C.	N.C.	14	GND	Substrate GND	24	IN4-2	Input for channel 4 gain adjustment
6	N.C.	N.C.	15	REV	Loading motor reverse input	25	IN4-1	Channel 4 input
7	MUTE	Mute control for channels 1 and 4	16	FWD	Loading motor forward input	26	OUT4-2	Channel 4 positive output
8	GND	GND	17	OUT3-1	Channel 3 negative output	27	OUT4-1	Channel 4 negative output
9	N.C.	N.C.	18	OUT3-2	Channel 3 positive output	28	GND	Substrate GND
			19	LDIN	Loading motor input			

IC231 LA11844ML(Home Audio Tuner IC)



IC BLOCK DIAGRAM & DESCRIPTION

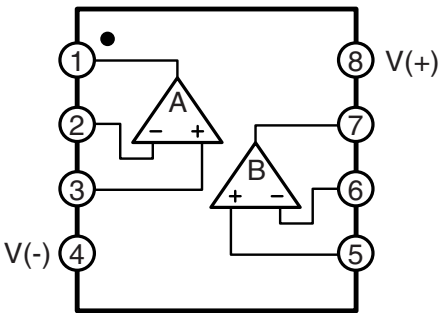
IC161 BA6849FP(CD-ROM Motor Driver)



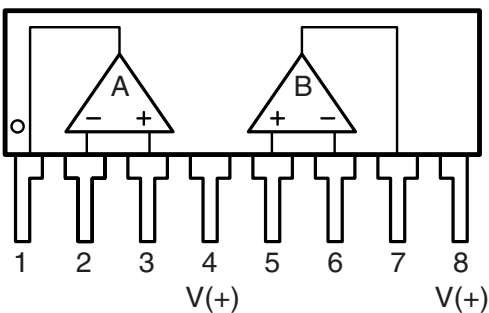
Pin No.	Name	Description	Pin No.	Name	Description
1	N.C.		15	VH	Hall bias
2	A3	Output	16	N.C.	
3	N.C.		17	CNF	Phase compensation condenser
4	A2	Output	18	SB	Short brake
5	N.C.		19	N.C.	
6	N.C.		20	FR	Rotation detection
7	A1	Output	21	ECR	Output voltage control reference
8	GND	GND	22	EC	Output voltage control
9	H1+	Hall signal input	23	PS	Power save
10	H1-	Hall signal input	24	FG	FG signal output
11	H2+	Hall signal input	25	VCC	Power source
12	H2-	Hall signal input	26	VM2	Motor power source 2
13	H3+	Hall signal input	27	VM1	Motor power source 1
14	H3-	Hall signal input	28	RNF	Resistance(output current detection) connect

IC411 NJM4556AL(Op.Amp)

D,M,V Type
(Top View)



L Type

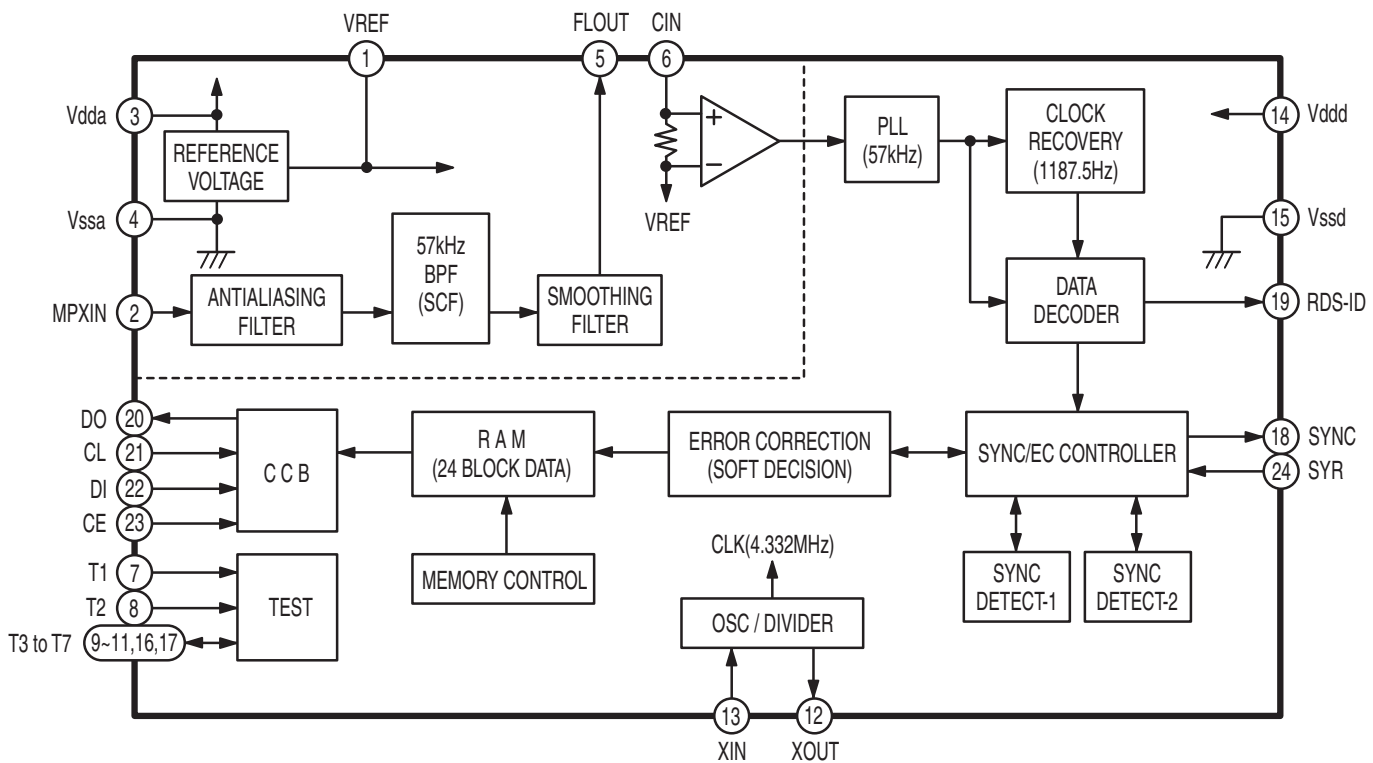


IC241 LC72121M-D(PLL Synthesizer)



IC BLOCK DIAGRAM & DESCRIPTION

IC251 LC72722 (RDS Signal Processor)

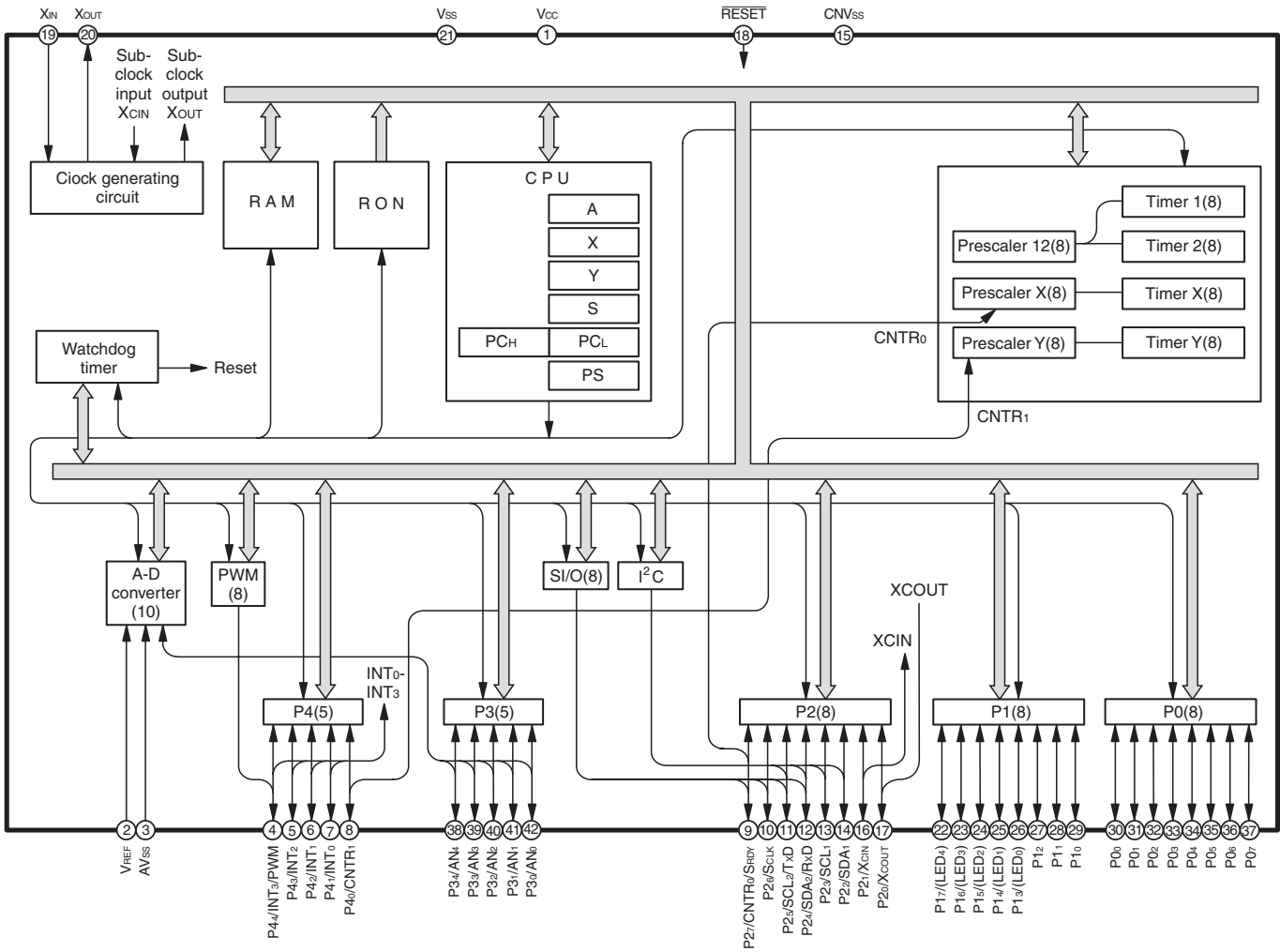


Pin No.	Pin name	Function	I/O
1	VREF	Reference voltage output (Vdda/2)	O
2	MPXIN	Baseband (multiplexed) signal input	I
5	FLOUT	Subcarrier output (filter output)	O
6	CIN	Subcarrier input (comparator input)	I
3	Vdda	Analog power supply (+5V)	-
4	Vssa	Analog ground	-
12	XOUT	Crystal oscillator output (4.332/8.664MHz)	O
13	XIN	Crystal oscillator input (external reference signal input)	I
7	T1	Test input (This pin must always be connected to ground.)	
8	T2	Test input (standby control) 0:Normal operation. 1:Standby state (crystal oscillator stopped)	
9	T3 (RDCL)	Test I/O (RDS clock output)	I/O*
10	T4 (RDDA)	Test I/O (RDS data output)	
11	T5 (RSFT)	Test I/O (soft decision control data output)	
16	T6 (ERROR/57K/TP/BE1)	Test I/O (error status, regencatcd carrier, TP, error block count outputs)	
17	T7 (CORREC/ARI-ID/TA/BEO)	Test I/O (error correction status, SK datection, TA, error block count outputs)	
18	SYNC	Block synchronization output	O
19	RDS-ID	RDS datection	
20	DO	Data output	I
21	CL	Clock input	
22	DI	Data input	
23	CE	Chip enable	
24	SYR	Synchronization and RAM address reset (active high)	-
14	Vddd	Digital power supply (+5V)	
15	Vssd	Digital ground	

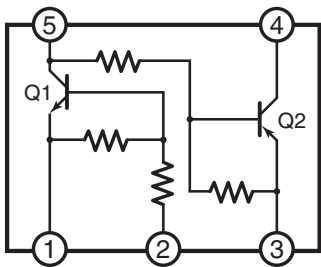
* Normally the output pin. Used as an I/O pin in test mode, which is not available to user applications.

IC BLOCK DIAGRAM & DESCRIPTION

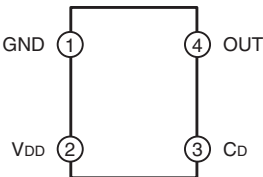
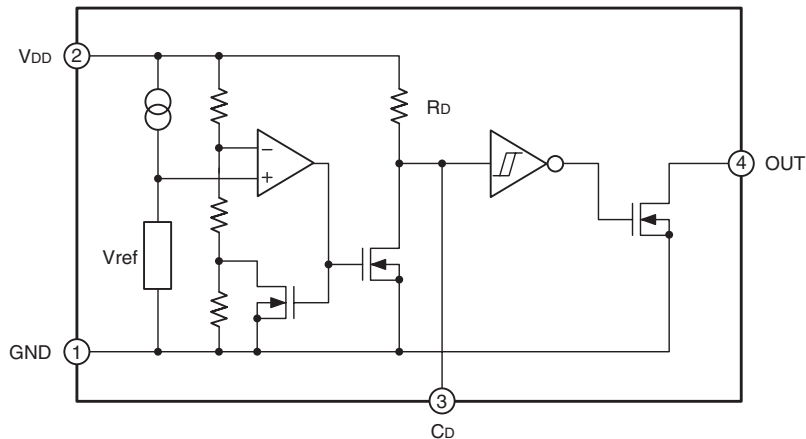
IC470 M38507M8-168FP(Op.Amp Micro Computer)



IC472,881 KRX101U
(Switching Application
Interface Circuit and Driver
Circuit Application)



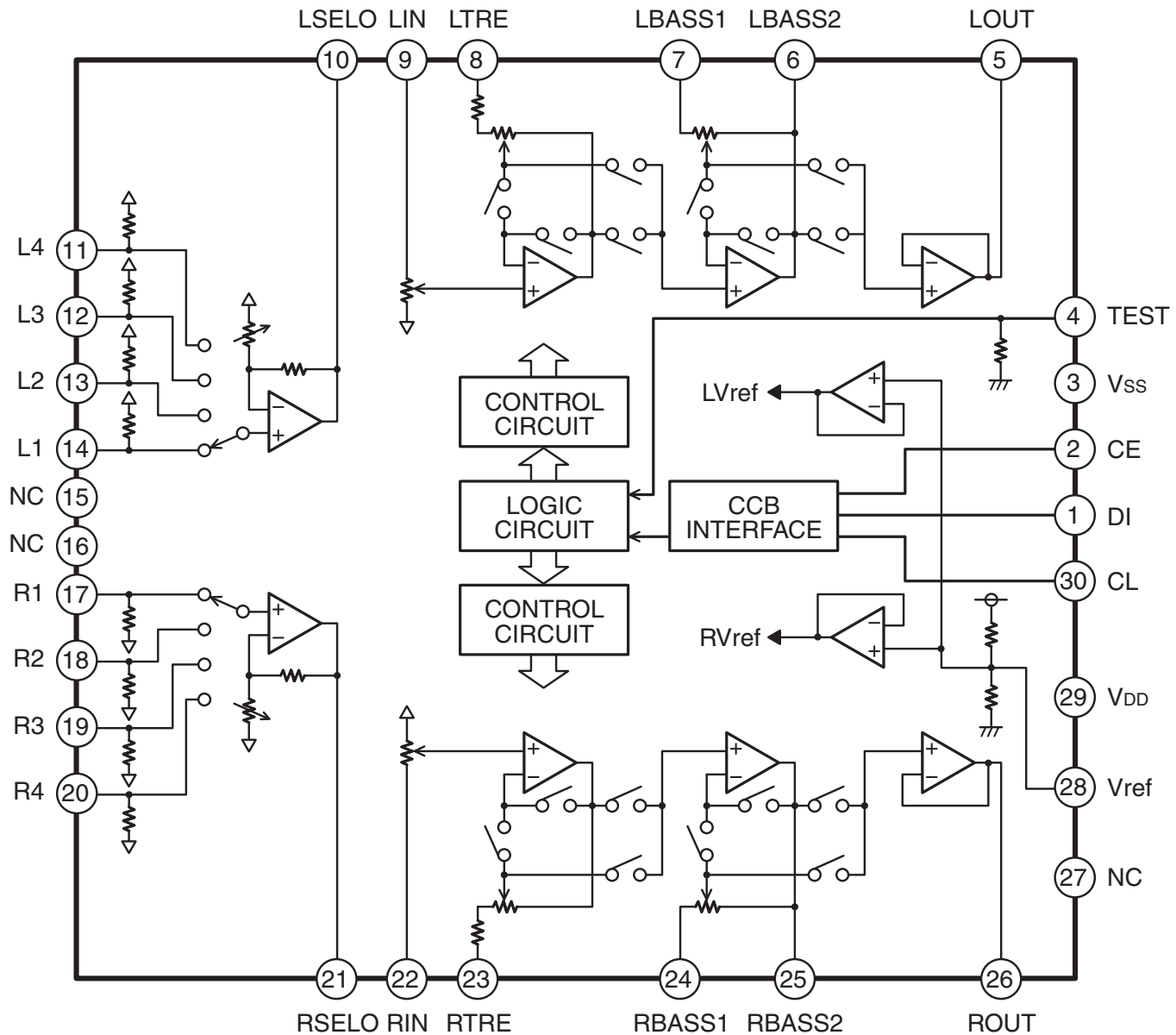
IC473,802 PST3627U(Monolithic IC)



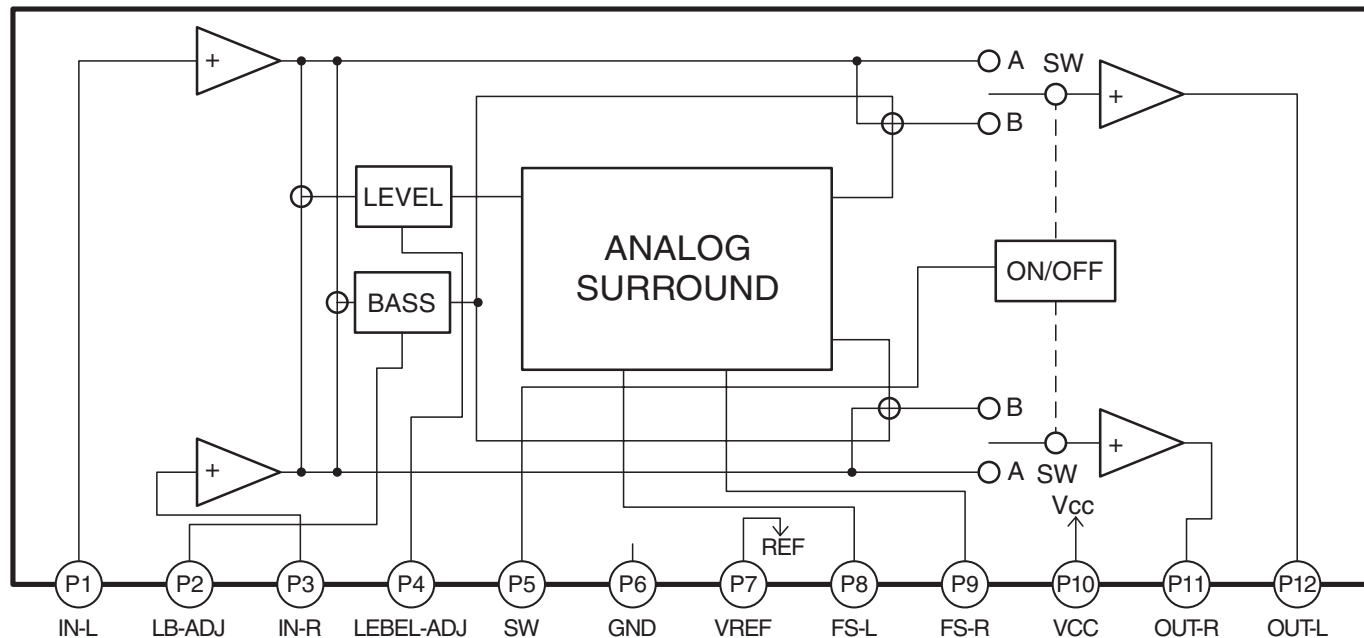
PIN No.	PIN NAME	FUNCTIONS
1	GND	GND Pin
2	V _{DD}	V _{DD} Pin / Voltage Detect Pin
3	C _D	Capacitor Connect Pin with Delay
4	OUT	Reset Signal Output Pin

IC BLOCK DIAGRAM & DESCRIPTION

IC480 LC75342M(Function Switch / Electric Volume / 2 Band

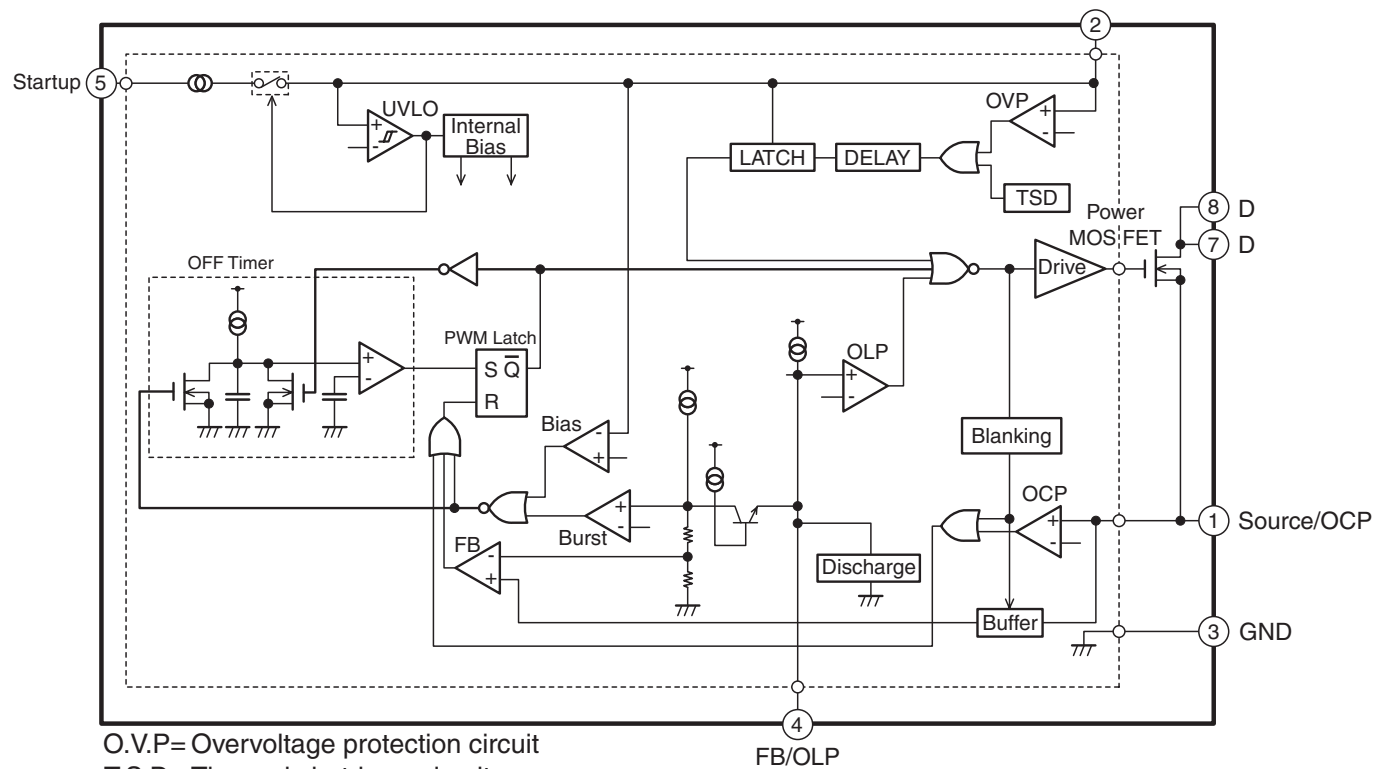


IC481 LA2610(Analog Surround IC)



IC BLOCK DIAGRAM & DESCRIPTION

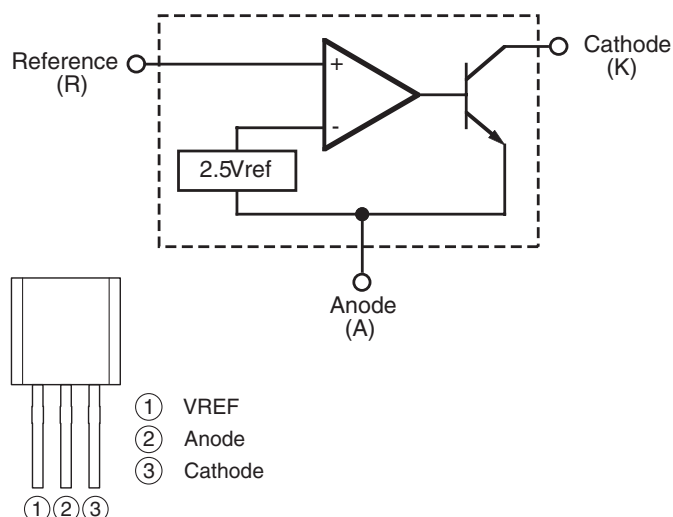
IC490(STR-A6151 Switching Regulator)



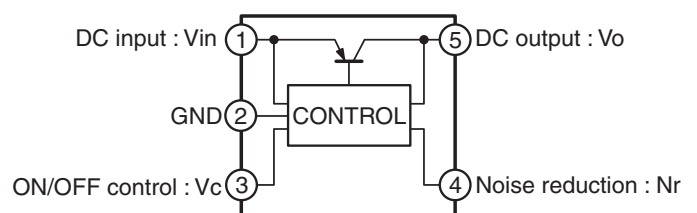
Function of Terminal

Pin No.	Sym.	Description	Function
1	Source/O.C.P	Source/O.C.P terminal	MOS FET source/Over current protect
2	Vcc	Power Supply terminal	Input of power supply for control circuit
3	GND	Ground terminal	Ground
4	FB/O.L.P	Feedback/O.L.P terminal	Input of constant voltage control signal /overload protection signal
5	Startup	Startup terminal	Input of Startup current
6	N.C.	-	Not Connected
7	D	Drain terminal	MOSFET drain
8			

IC492 KIA431(Voltage CTL)

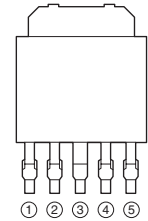
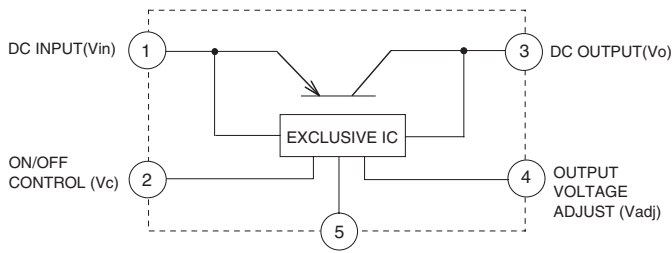


IC493 PQ1X501M2Z(Regulator)



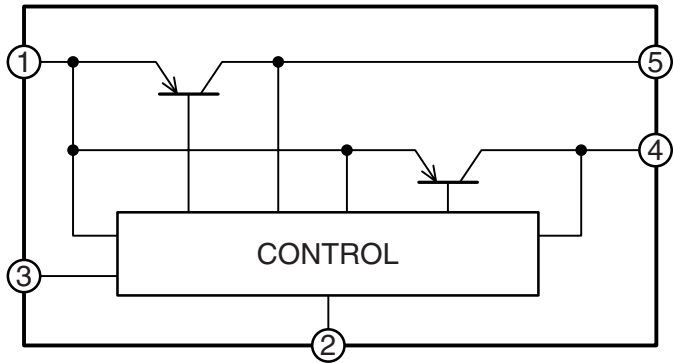
IC BLOCK DIAGRAM & DESCRIPTION

IC494 PQ070XZ01Z(Regulator)

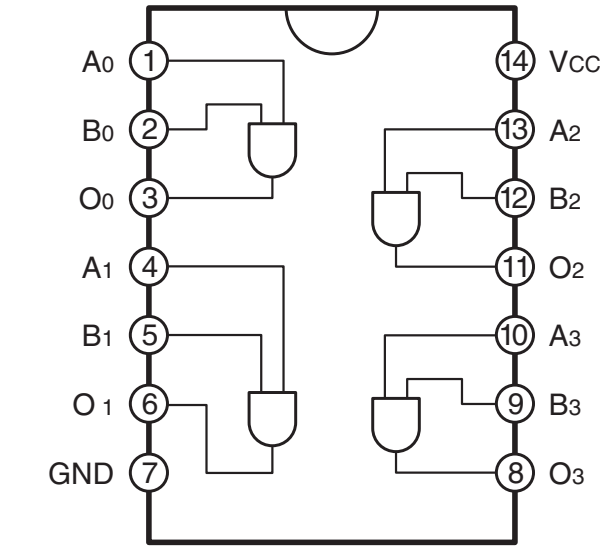


Pin No.	Symbols	Description
1	Vin	DC INPUT
2	Vc	ON/OFF CONTROL
3	Vo	DC OUTPUT
4	Vadj	OUTPUT VOLTAGE ADJUSTMENT
5		GND

IC495 PQ2L2182MS (Regulator)



IC806 74VHCT08AMTCX (Quad 2-input and Gate)

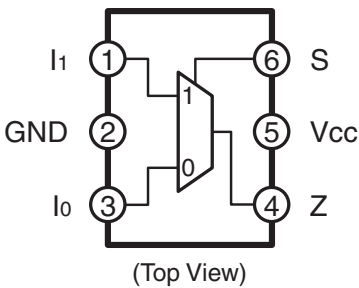


A	B	O
L	L	L
L	H	L
H	L	L
H	H	H

Pin Names	Description
An' BN	Inputs
ON	Outputs

IC859 NC7SZ157P6 (UHS 2-Input Non-Inverting Multiplexer)

Connection Diagram

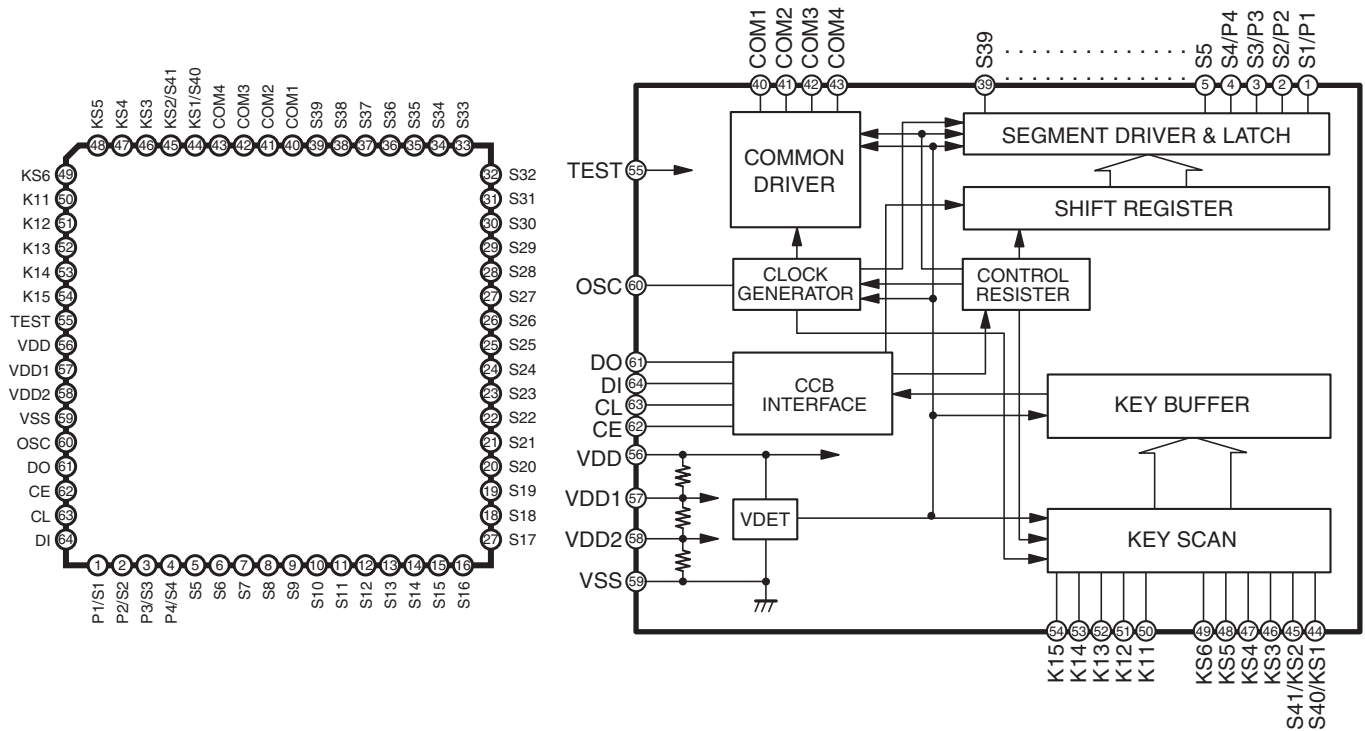


Pin Descriptions

Pin Name	Description
I0, I1	Data Inputs
S	Control Inputs
Z	Output

IC BLOCK DIAGRAM & DESCRIPTION

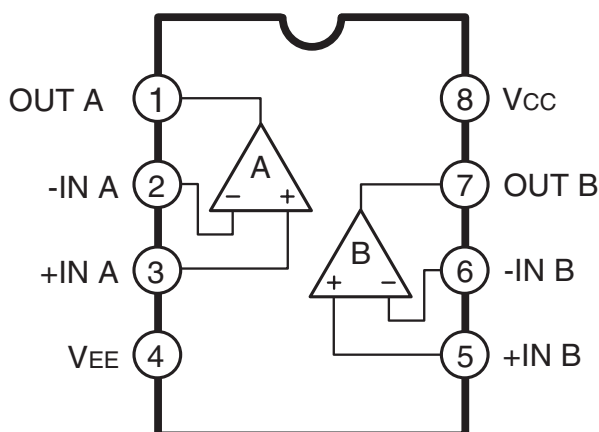
IC601 LC75854E (LCD Driver)



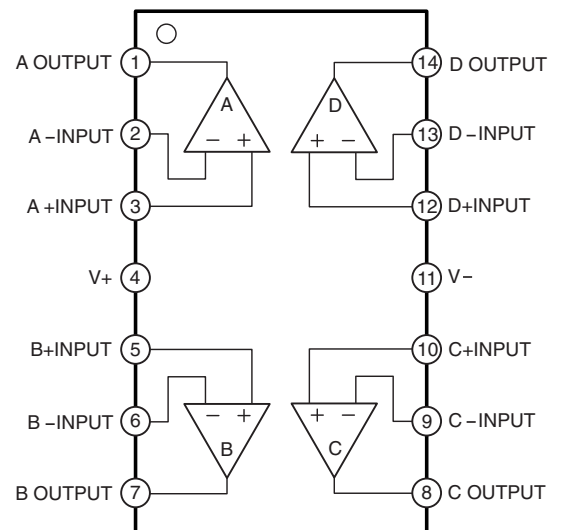
Pin	Pin No.	Descriptions	I/O
S1/P1 to S4/P4 S5 to S39	1 to 4 5 to 39	Segment output pins for displaying the display data transferred by serial data input. The S1/P1 to S4/P4 pins can be used as general-purpose output ports under control data.	O
COM1 COM2 COM3 COM4	40 41 42 43	Common driver output pins. The frame frequency (f_o) is given by : $f_o = (f_{osc}/512)Hz$.	O
KS1/S40, KS2/S41 KS3 to KS6	44, 45 46 to 49	Key scan output pin. When a Key matrix is to be formed, the diode is normally installed to the timing line of the Key scan to prevent short-circuit. Such short-circuiting will not cause damage because the impedance of output transistor is the unbalance CMOS output. The KS1/S40, KS2/S41 pins can be used as segment output when so specified by the control data.	O
K11 to K15	50 to 54	Key scan input pin at pull-down resistance is built-in.	I

Pin	Pin No.	Descriptions	I/O
OSC	60	Oscillator pin, which, together with externally connected resistor and capacitor, makes up an oscillator circuit.	I/O
CE CL DI DO	62 63 64 61	Oscillator pin, which, together with externally connected resistor and capacitor, makes up an oscillator circuit. CE : Chip enable CL : Synchronization clock DI : Transfer data DO : Output data	I I I O
TEST	55	Connect to ground.	I
VDD1	57	Used for applying the LCD driver 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias scheme is used.	I
VDD2	58	Used for applying the LCD driver 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias scheme is used.	I
VDD	56	Power supply pin to provide a voltage between 4.5V to 6.0V.	-
VSS	59	Power supply pin to connect to ground.	-

IC330 KIA4558F (Dual Low Noise Operational Amplifier)

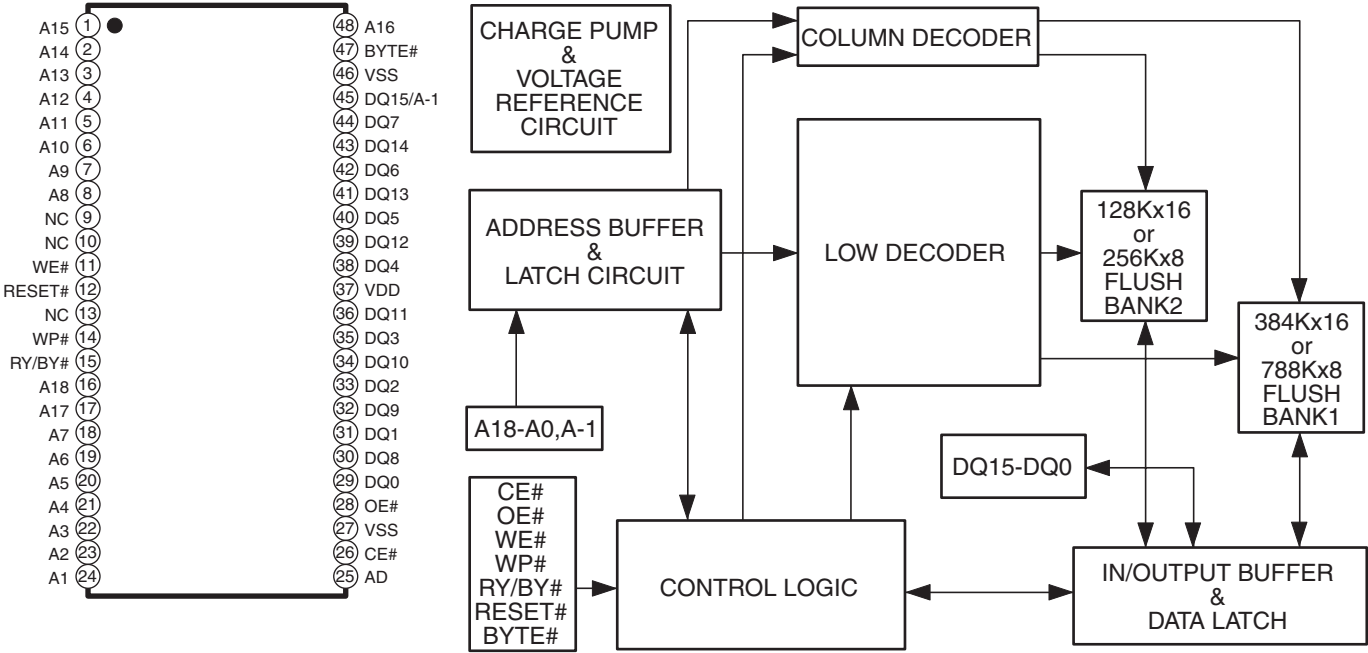


IC360 NJM2058M (Operational Amplifier)



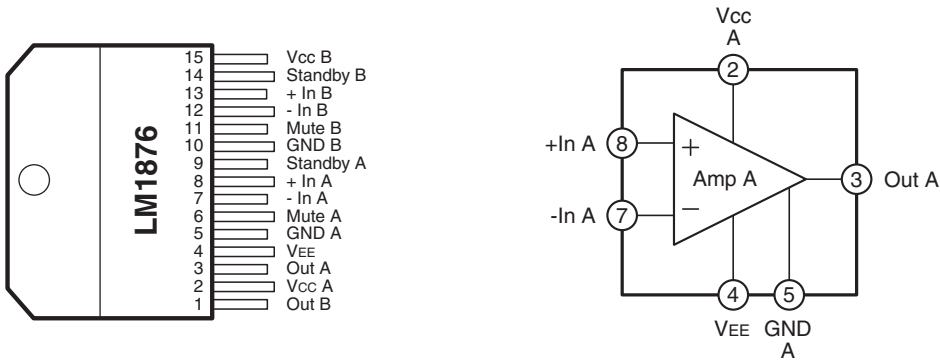
IC BLOCK DIAGRAM & DESCRIPTION

IC818 LE28DW8163T-70T-MPB (8M Bit Flash)

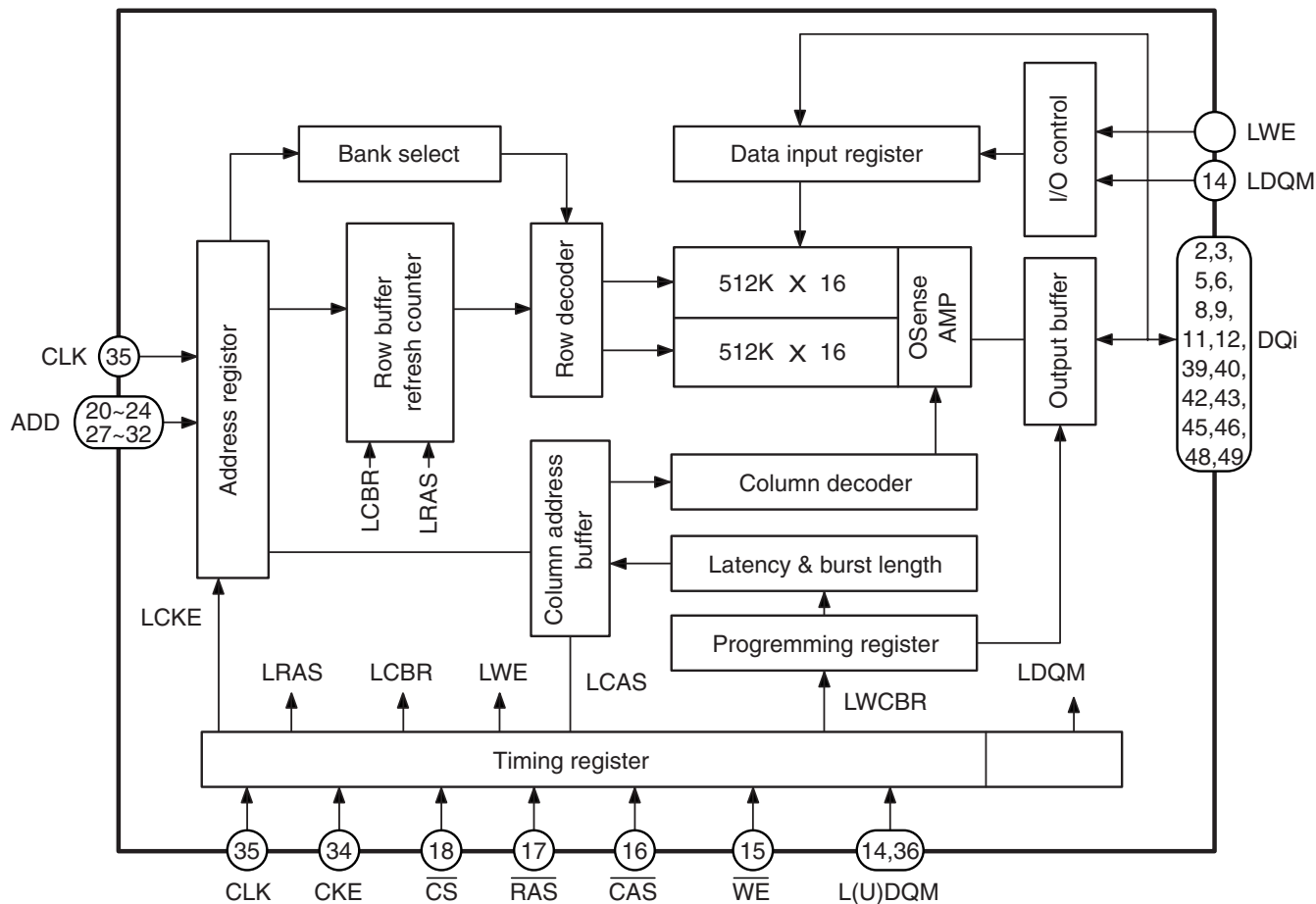


Symbols	Pin Name	Functions
A18,A17	Bank Selective Address	Selects bank 1 when "L" and bank 2.
A16-A0,A-1	Flush Bank Address	Supply address for flush bank.
A18-A15	Flush Bank Block Address	Select flush bank for erease.
A18-A10	Flush Bank Sector Sddress	Select flush bank sector for erease.
DQ15-DQ0	Data Input/Output	To output data during read cycle and receive input data during write cycles. Data is internaliy latched during a writecycle. The output are high inpedance when OE#,CE# is "H".
CE#	Chip Enable	To activate the flush bank when CE# is "L".
OE#	Output Enable	To activate the data output buffer .
WE#	Write Enable	To control the write, erease and program.
BYTE#	Bait Pin	Bait mode when "L" and word mode when "H".
RY/BY#	Ladey/Beje Output	Output "L" when write and ezcept "H".
WP#	Write Protect	To activate hardware write protect when "L".
RESET#	Reset	To activate hardware reset when "L".
VDD	Power Supply	2.7V~3.6V supply.
VSS	Ground	

IC320 LM1876TF (Dual 20W Audio Power Amplifier)



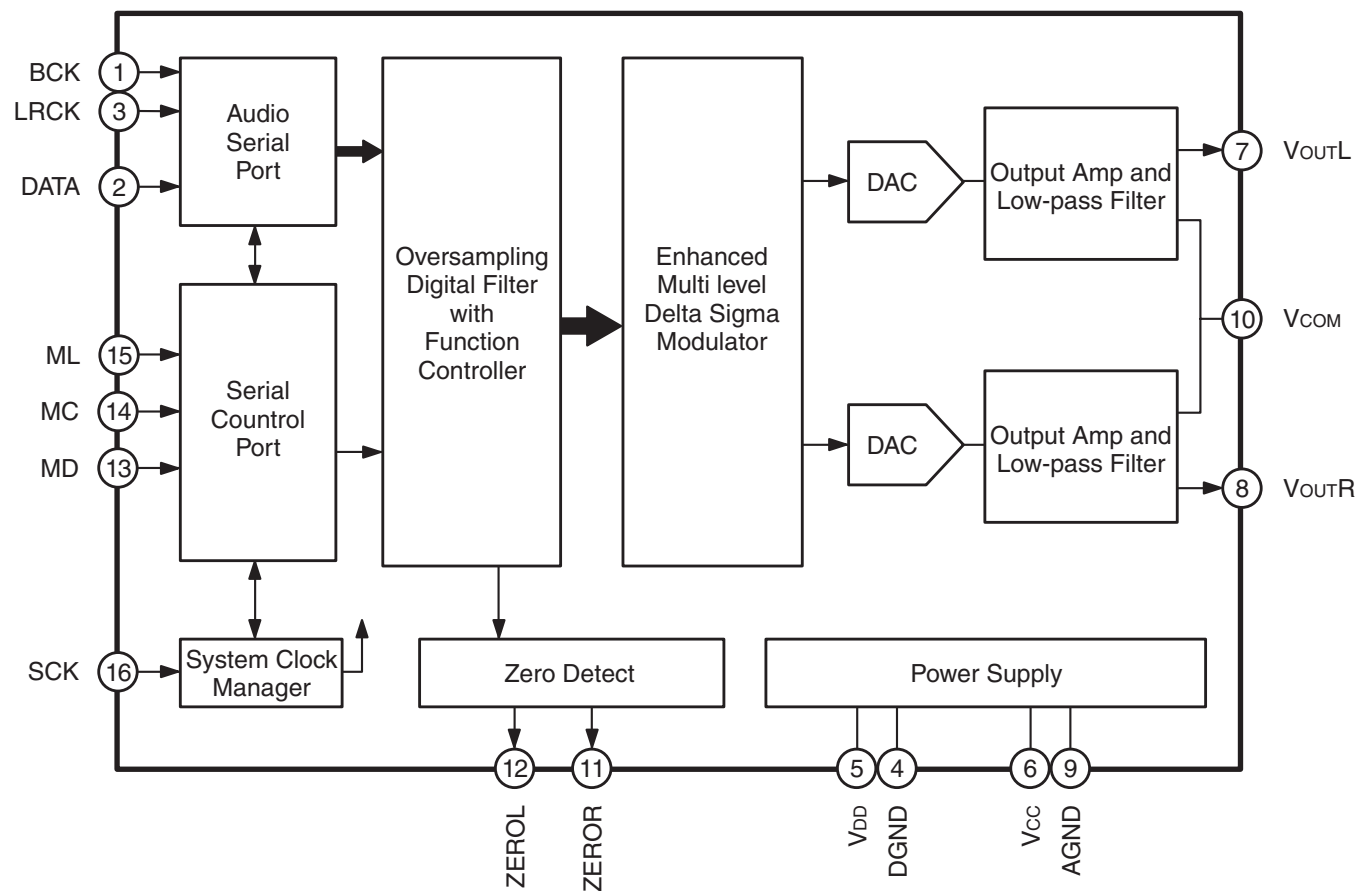
IC822 LC3816161ET-70-MPB (Synchronous DRAM)



No.	Pin	Name	Input Function
35	CLK	System clock	Active on the positive going edge to sample all inputs.
18	CS	Chip select	Disables or enable device operation by masking or enablin all inputs except CLK, CKE and L(U)DQM.
34	CKE	Clock enable	Masks system clock to freeze operation from the next clock cycle. CKE should be enable at least one cycle prior to no command. Disable input buffers for power down in standby.
20,21~24 27~32	A0 to A10/AP	Address	Row/column addresses are multiplexed on the same pin. Row address : RA0 to RA10, column address : CA0 to CA7
19	BA	Bank select address	Select bank to be activated during row address latchtime. Select bank for read/write during column address latch time.
17	RAS	Row address strobe	Latches row address on the positive going edge of the CLK with RAS low. Enable row access & precharge.
16	CAS	Column address strobe	Latches column address on the positive going edge of the CLK with CAS low. Enable column access.
15	WE	Write enable	Enable write operation and row precharge. Latches data in strting from CAS, WE active.
14,36	L(U)DQM	Data mask ensble	Makes data output Hi-Z, t SHZ after the clock and masks the output. Blocks data input when L(U)DQM active.
2,3,5,6,8,9,11, 12,39,40,42,43, 45,46,48,49	DQ0 to 15	Data input/output	Data inputs/outputs are multiplexed on the same pins.
1,50	VDD/VSS	Power supply/ground	Power and ground for theinput buffer and the core logic.
7,41	VDDQ/VSSQ	Output buffer power/ground	Isolated power supply and ground for the output buffers to proxide improved noise immunity.
37	N.C/RFU	No connection	This pin is recommended to be left no connection on the device.

IC BLOCK DIAGRAM & DESCRIPTION

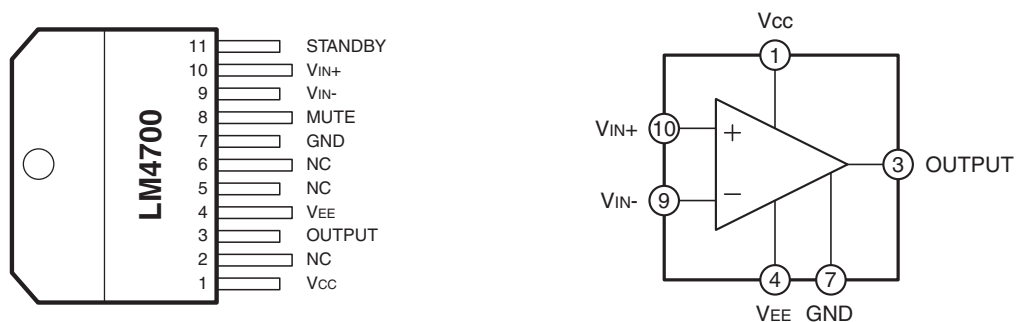
IC871 PCM1748E (Digital to Analog converter)

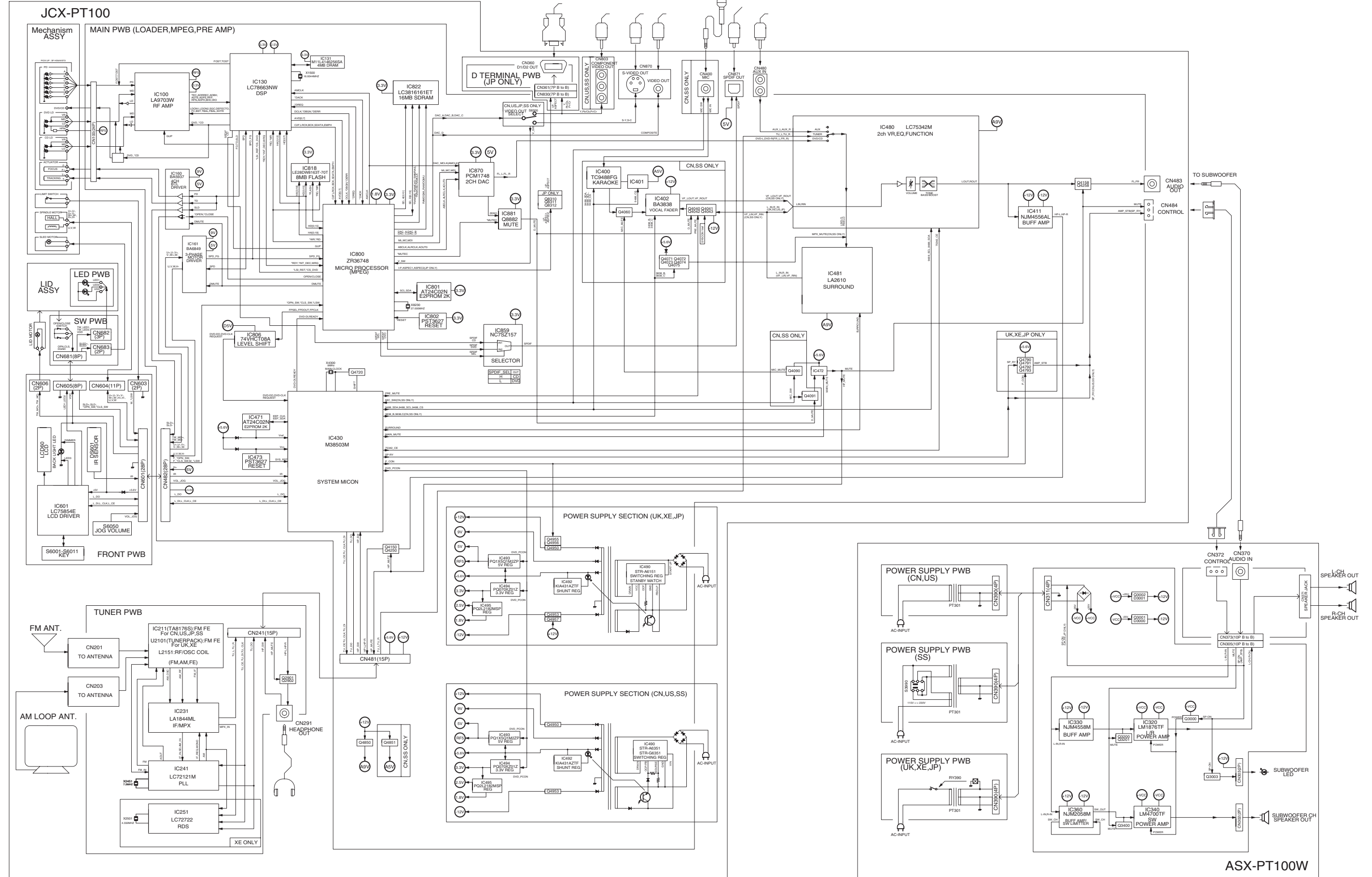


PIN ASSIGNMENTS

PIN	NAME	TYPE	DESCRIPTIONS
1	BCK	IN	Audio data bit clock input.
2	DATA	IN	Audio data digital input.
3	LRCK	IN	L-channel and R-channel Audio data latch enable input.
4	DGND	-	Digital ground.
5	VDD	-	Digital power supply, +3.3V.
6	VCC	-	Analog power supply, +5V.
7	VOUTL	OUT	Analog output for L-channel.
8	VOUTR	OUT	Analog output for R-channel.
9	AGND	-	Analog ground.
10	VCOM	-	Common voltage decoupling.
11	ZEROR/ZEROA	OUT	Zero flag output for R-channel / Zero flag output for L / R-channel.
12	ZEROL/NA	OUT	Zero flag output for L-channel / No assign.
13	MD	IN	Mode control data input.
14	MC	IN	Mode control clock input.
15	ML	IN	Mode control latch input.
16	SCK	IN	System clock input.

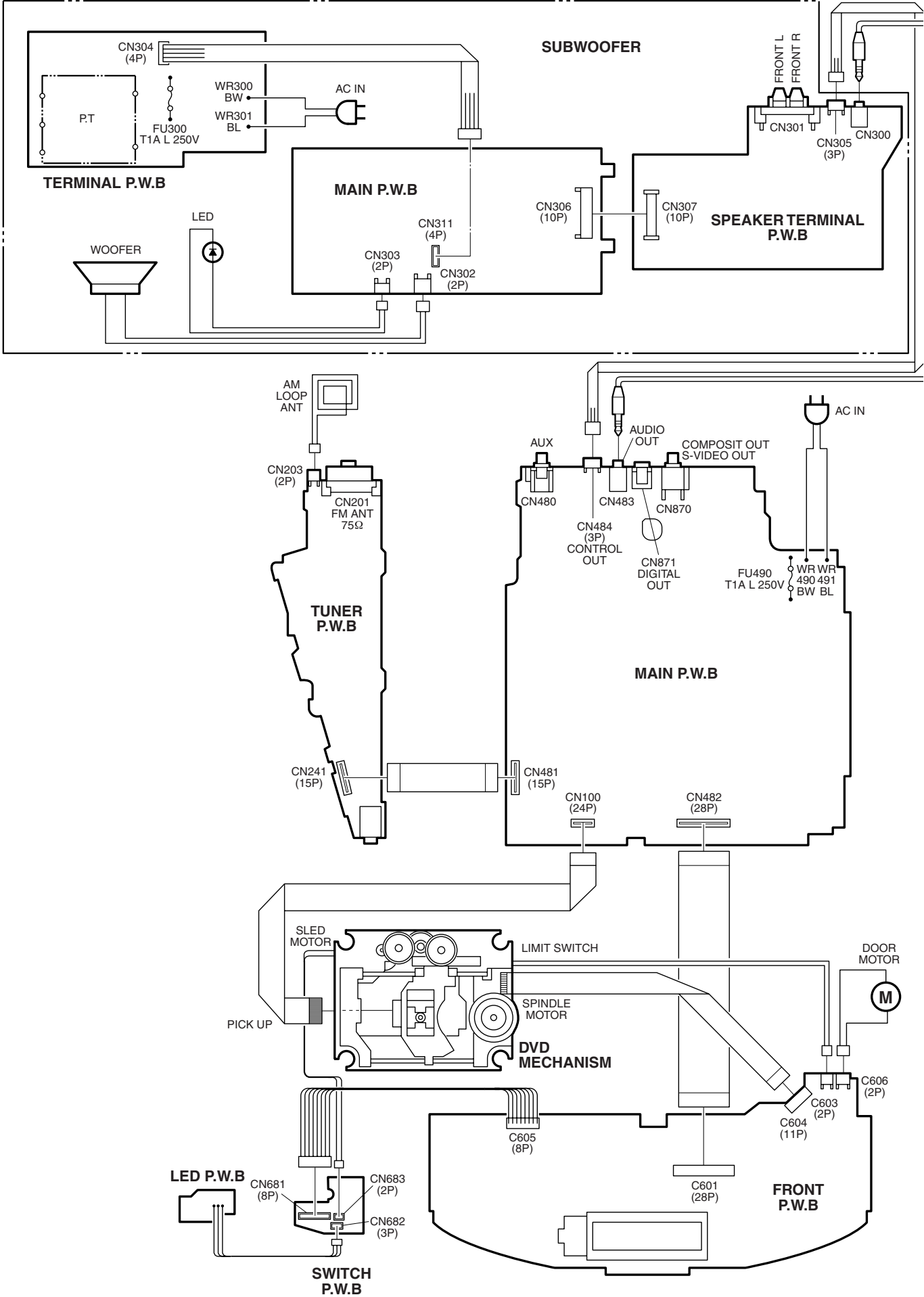
IC340 LM4700TF (30W Audio Power Amplifier)





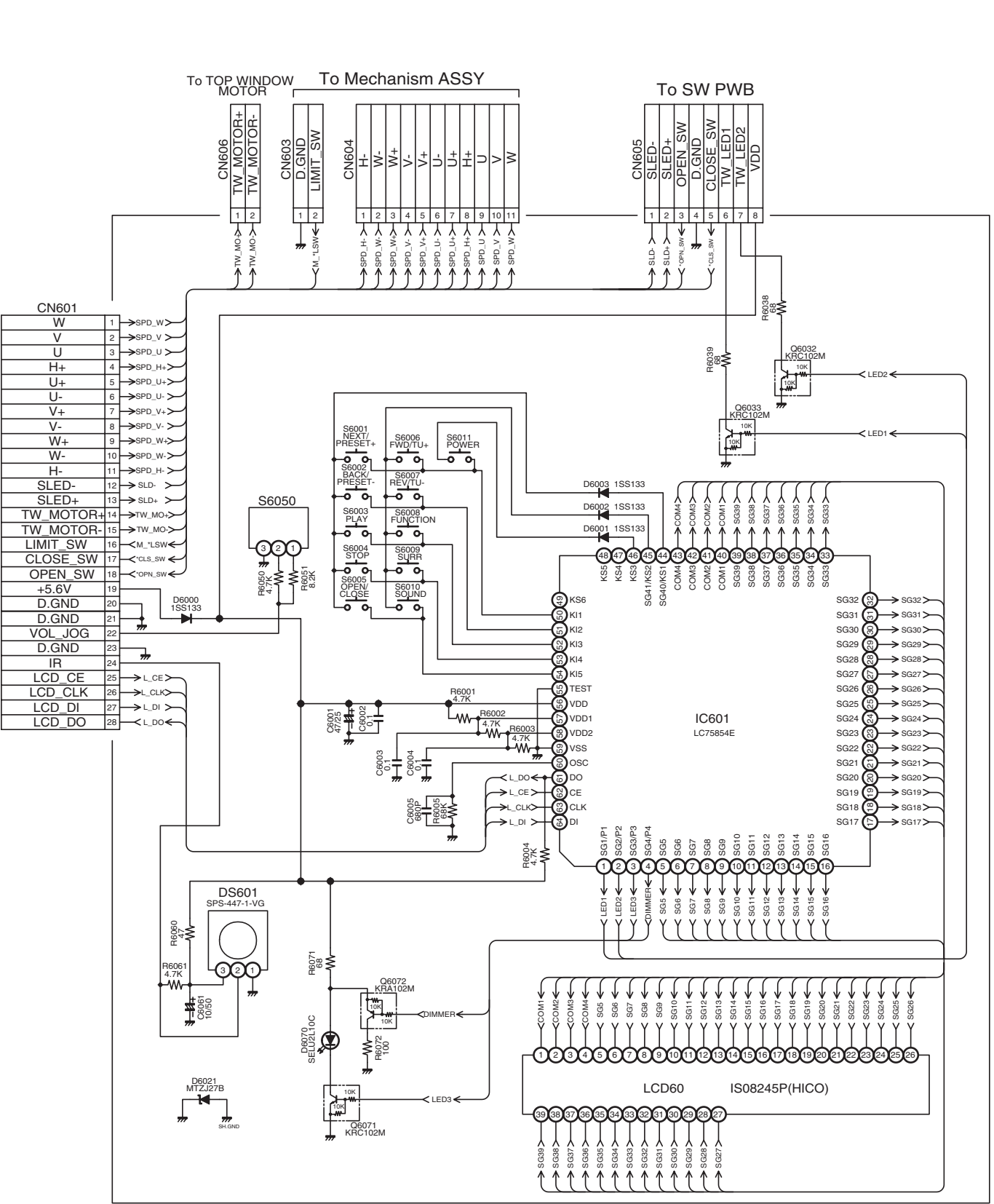
This is a basic block diagram.

WIRING CONNECTION



This is a basic wiring connection.

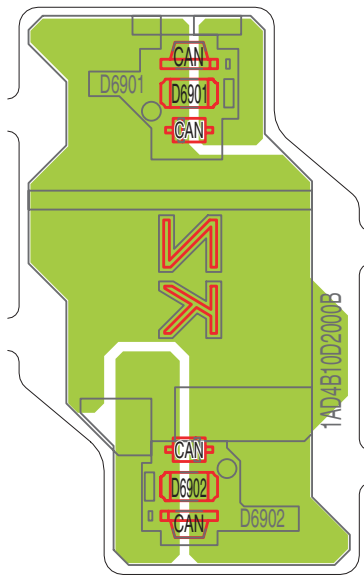
SCHEMATIC DIAGRAM (FRONT)



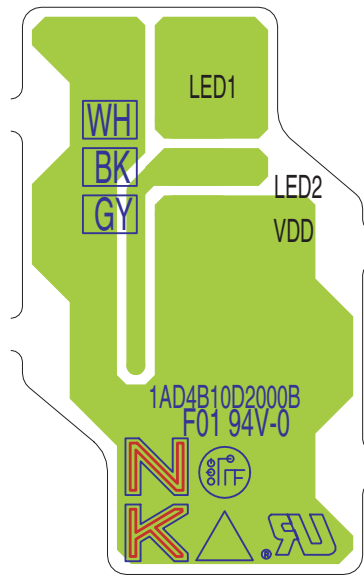
This is a basic schematic diagram.

WIRING DIAGRAM

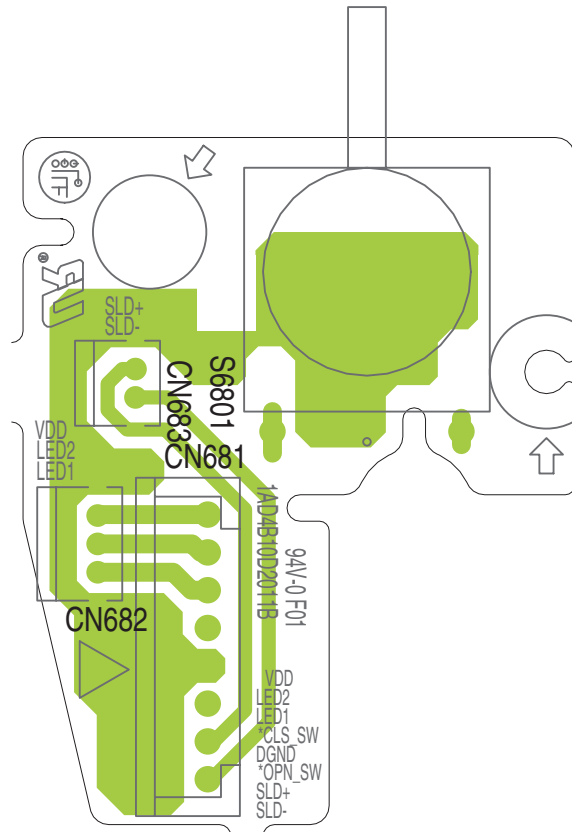
LED P.W.BOARD Parts Side View



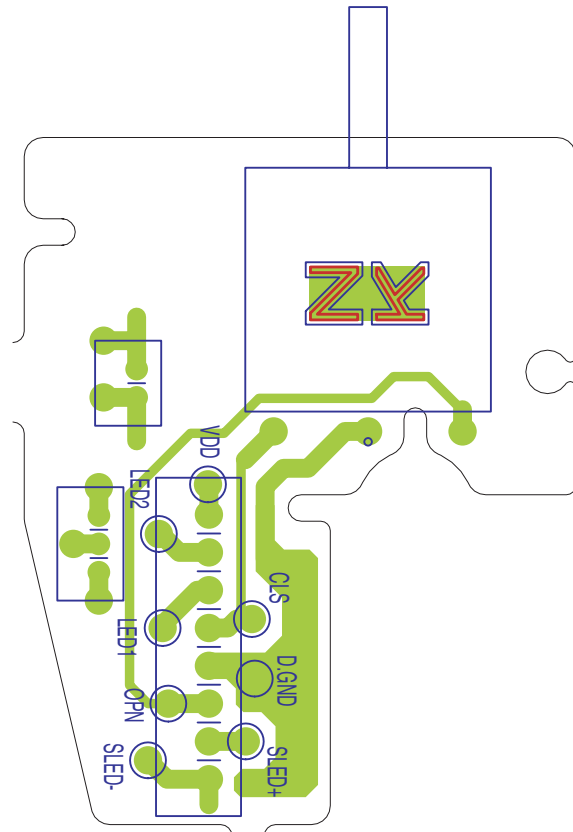
LED P.W.BOARD Pattern Side View



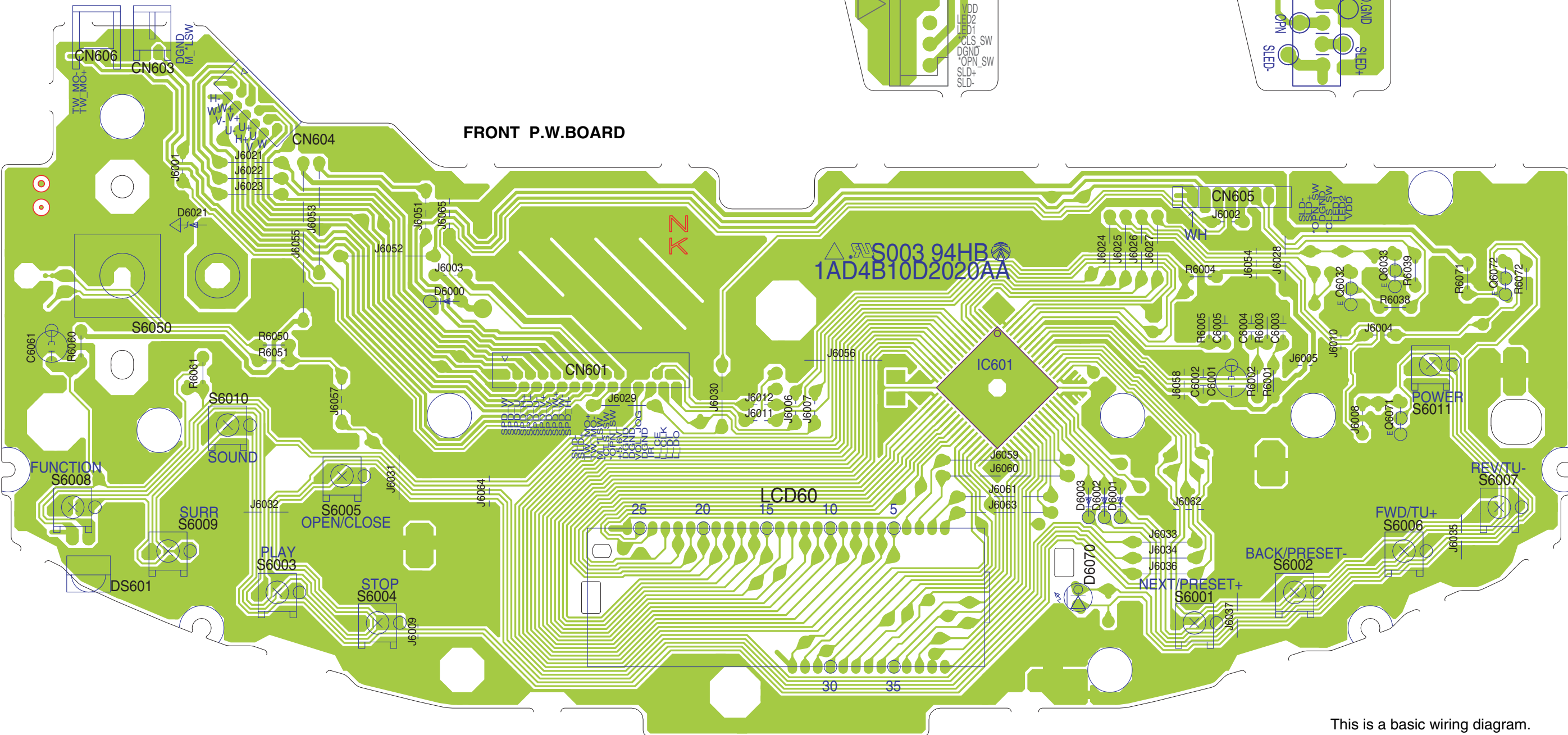
SWITCH P.W.BOARD Parts Side View



SWITCH P.W.BOARD Pattern Side View

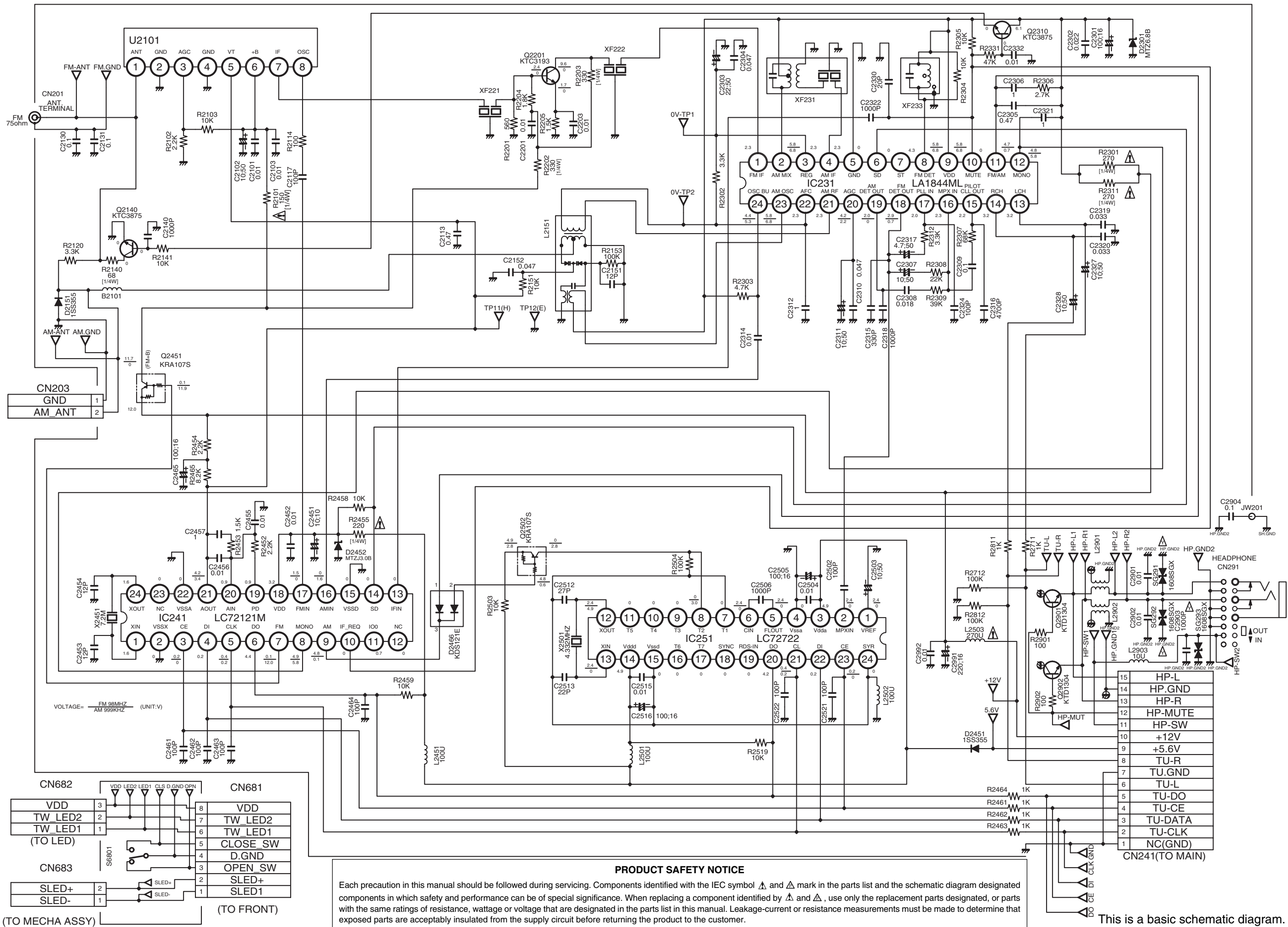


FRONT P.W.BOARD

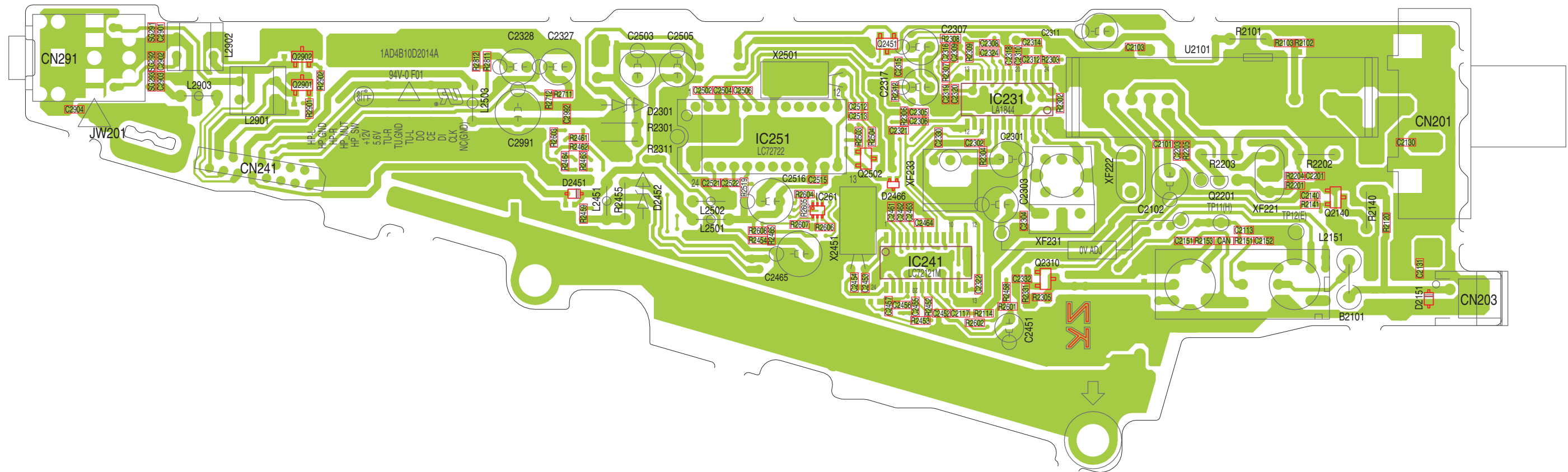


This is a basic wiring diagram.

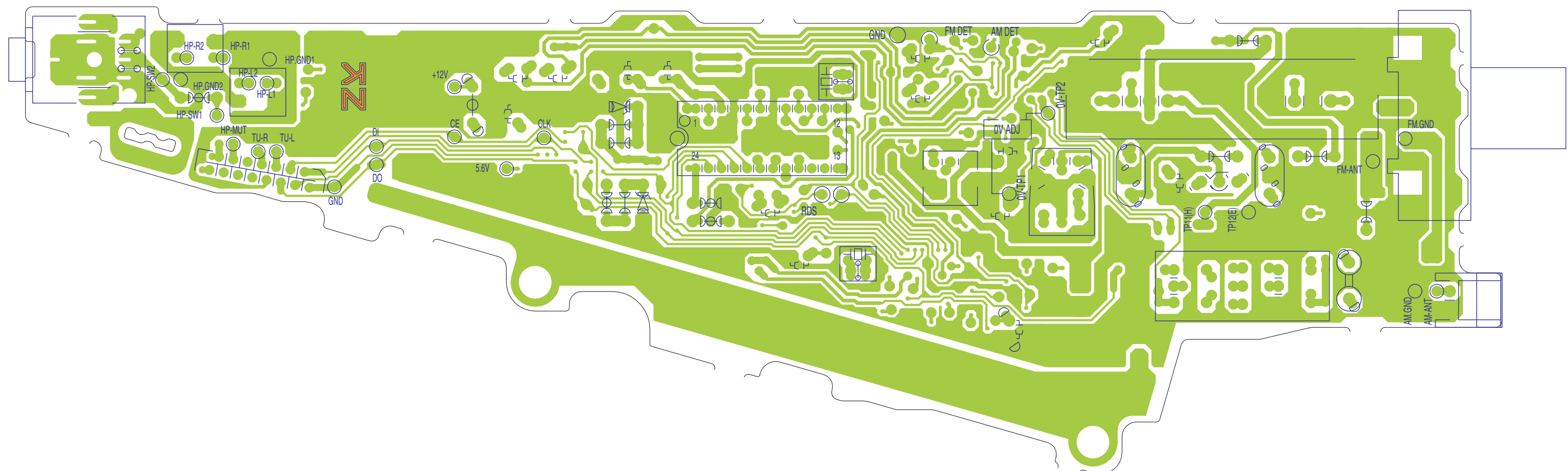
SCHEMATIC DIAGRAM (TUNER)



Parts Side View

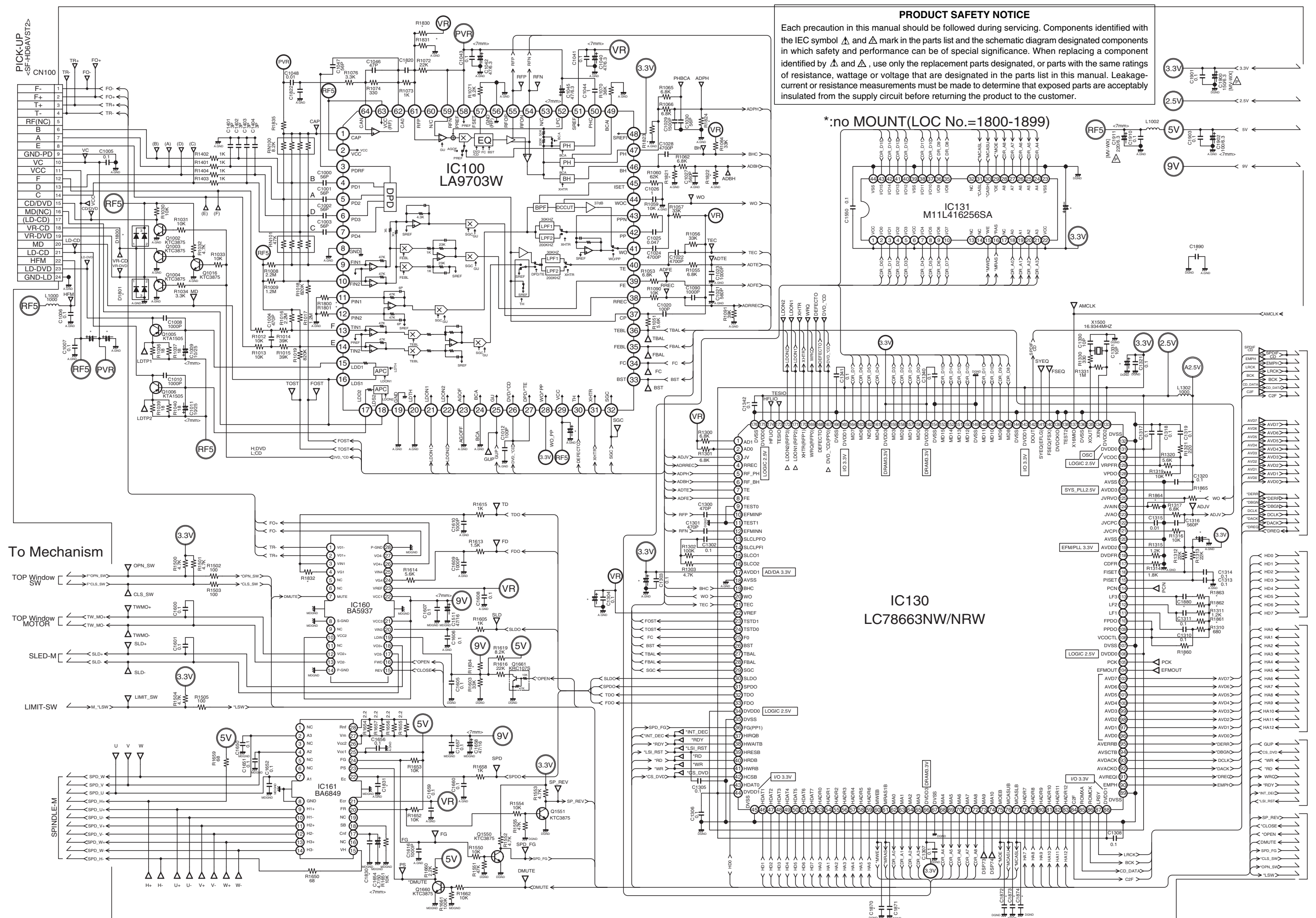


Pattern Side View



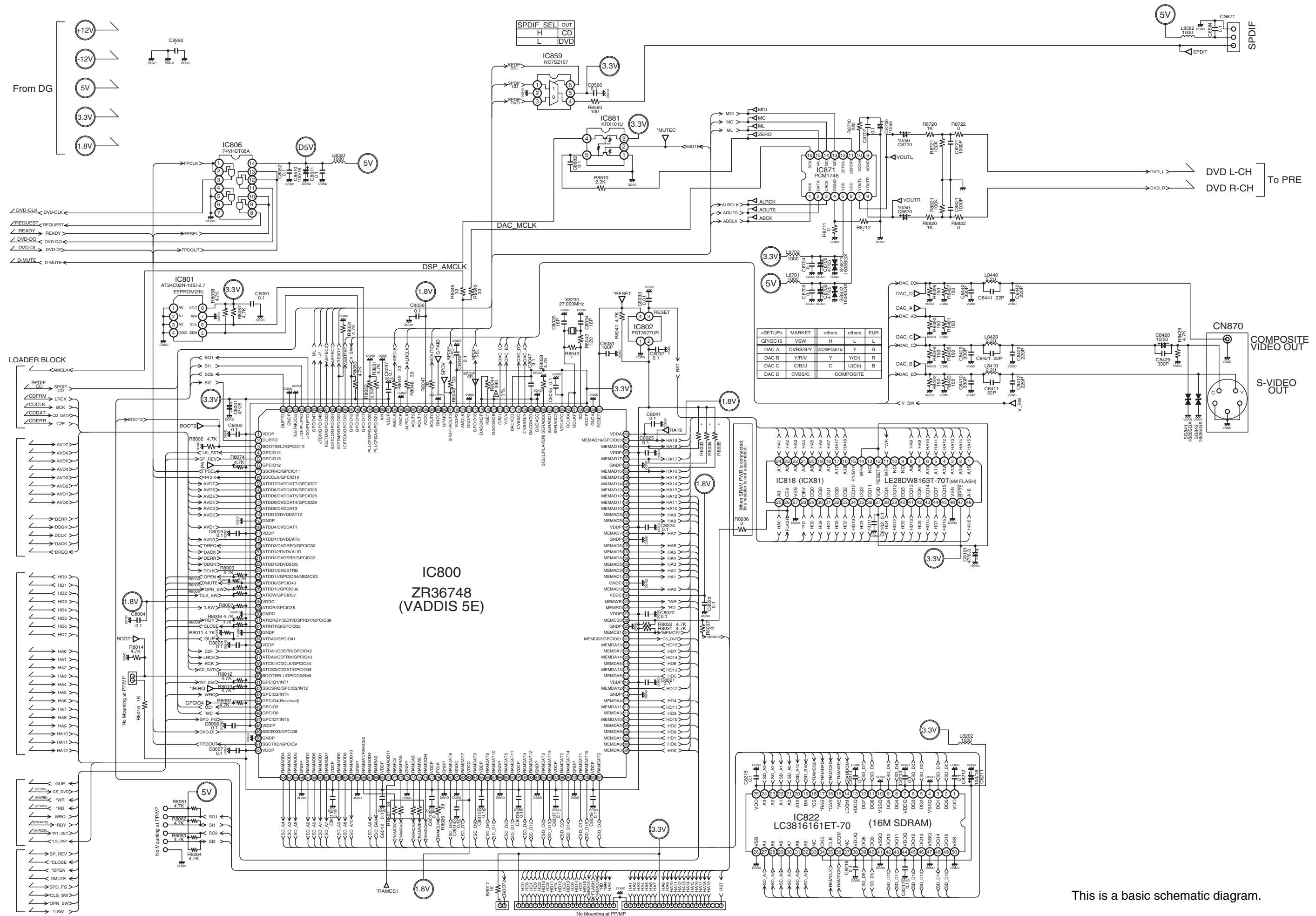
This is a basic wiring diagram.

SCHEMATIC DIAGRAM (MAIN) Loader Section



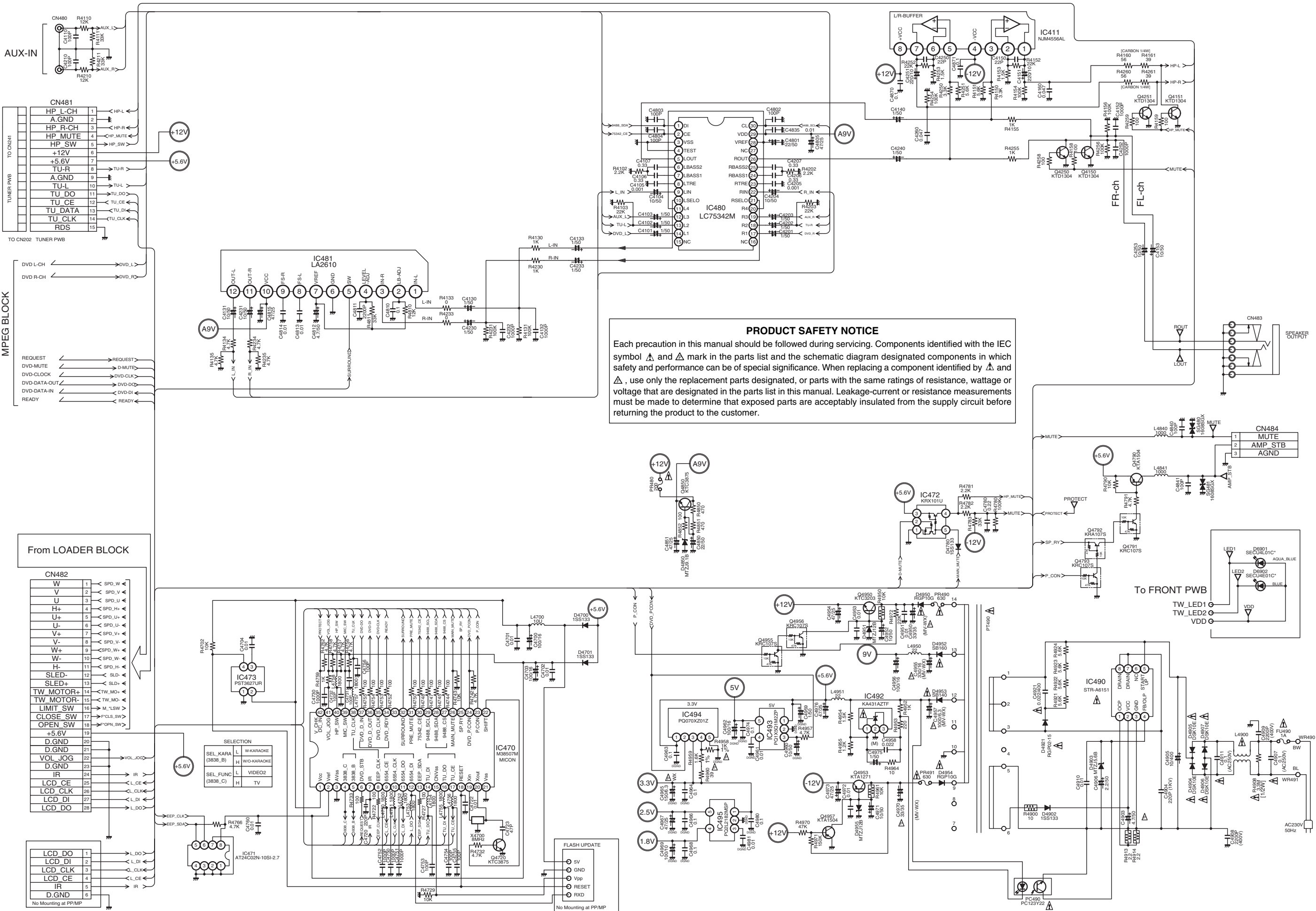
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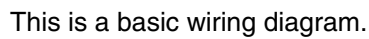
SCHEMATIC DIAGRAM (MAIN) MPEG Section

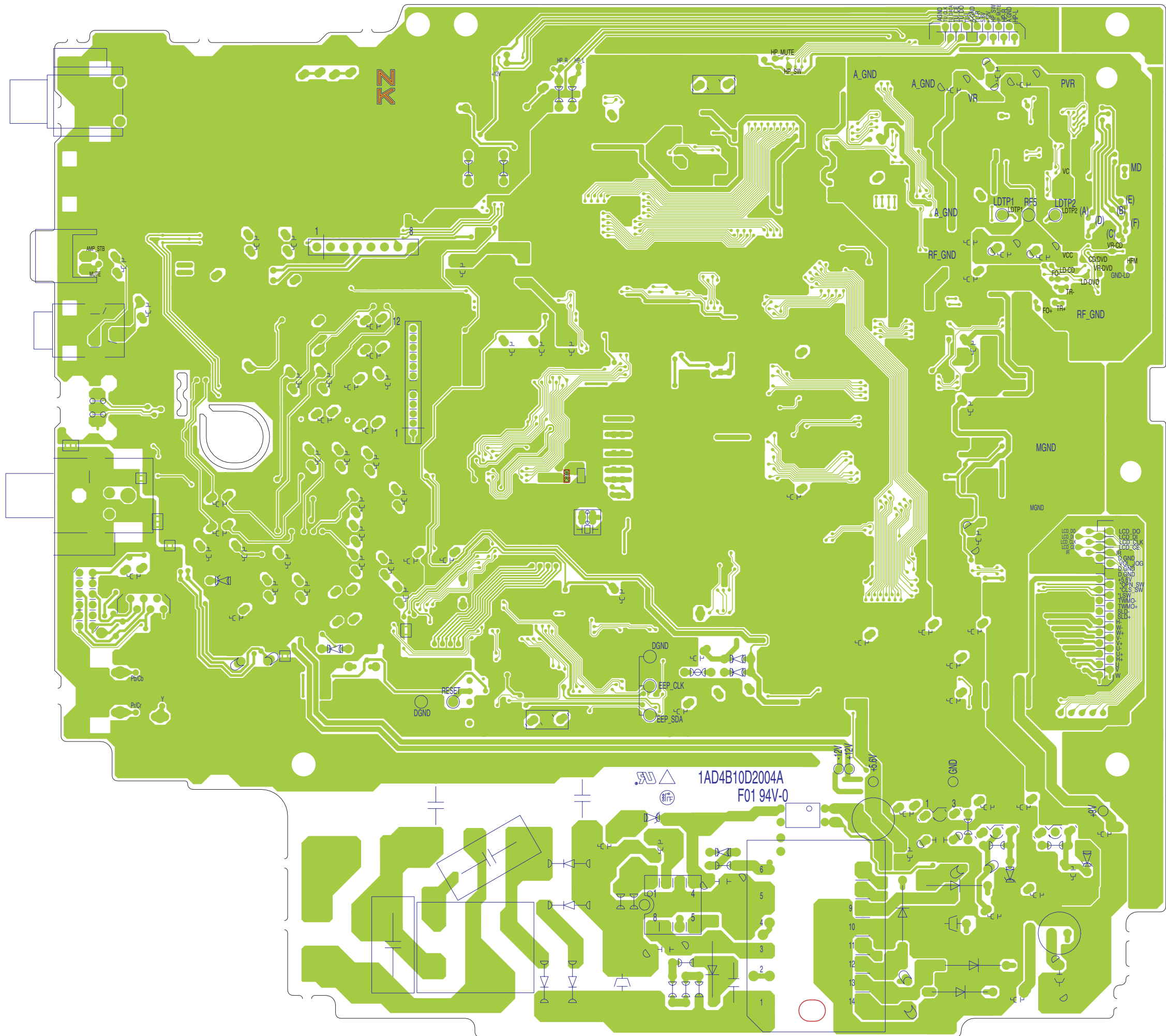


This is a basic schematic diagram.

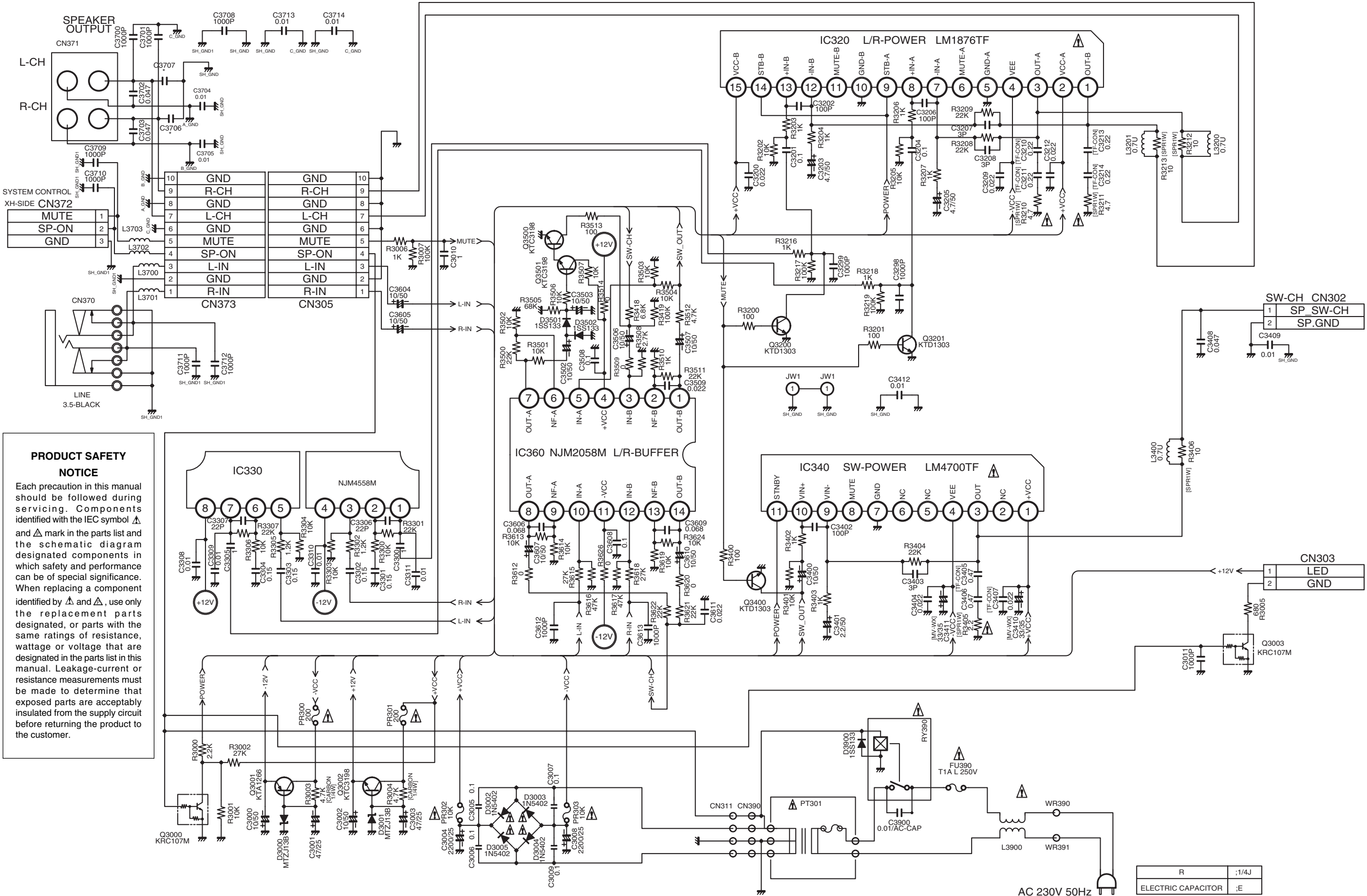
SCHEMATIC DIAGRAM (MAIN) Preamplifier Section







SCHEMATIC DIAGRAM (SPEAKER)

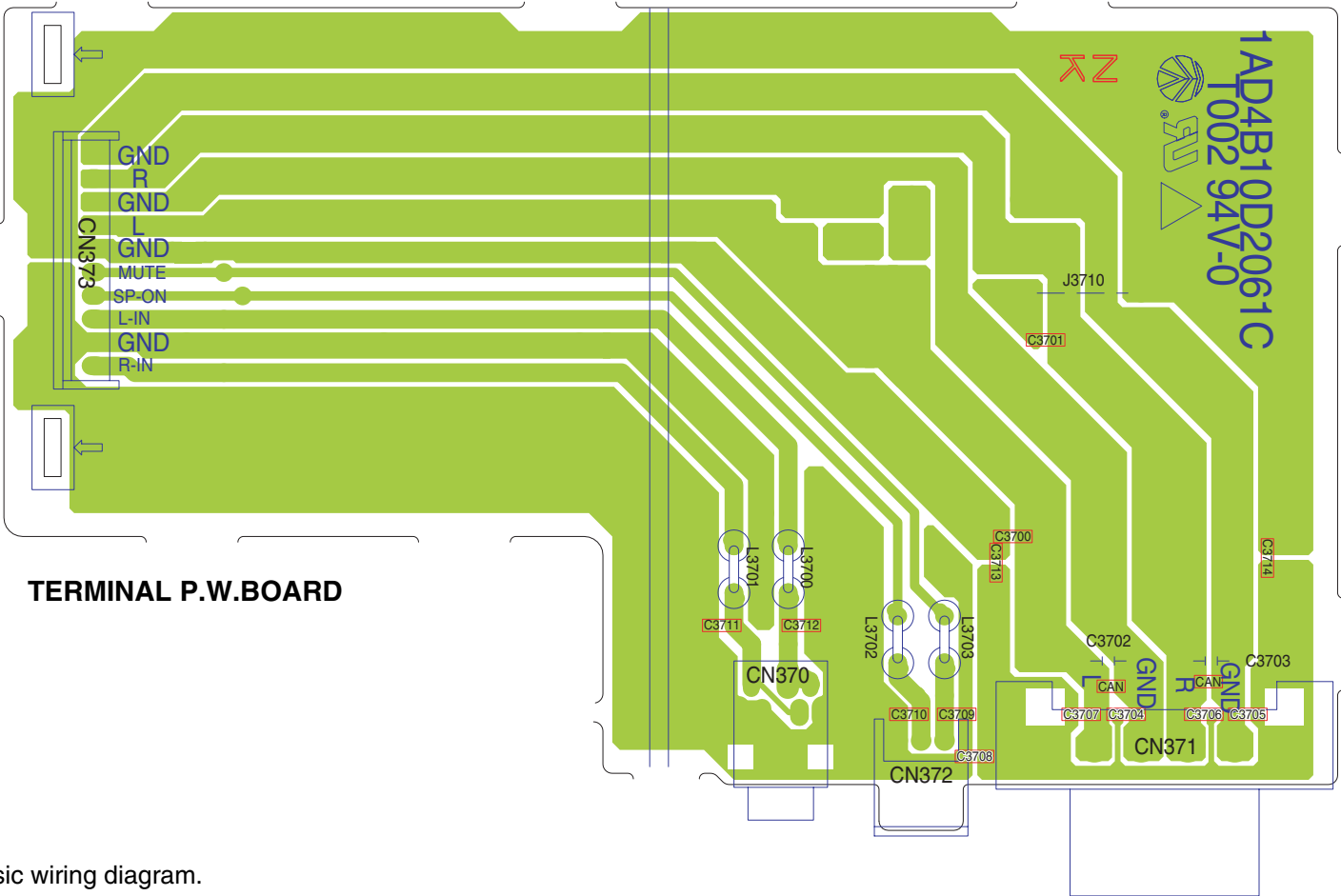
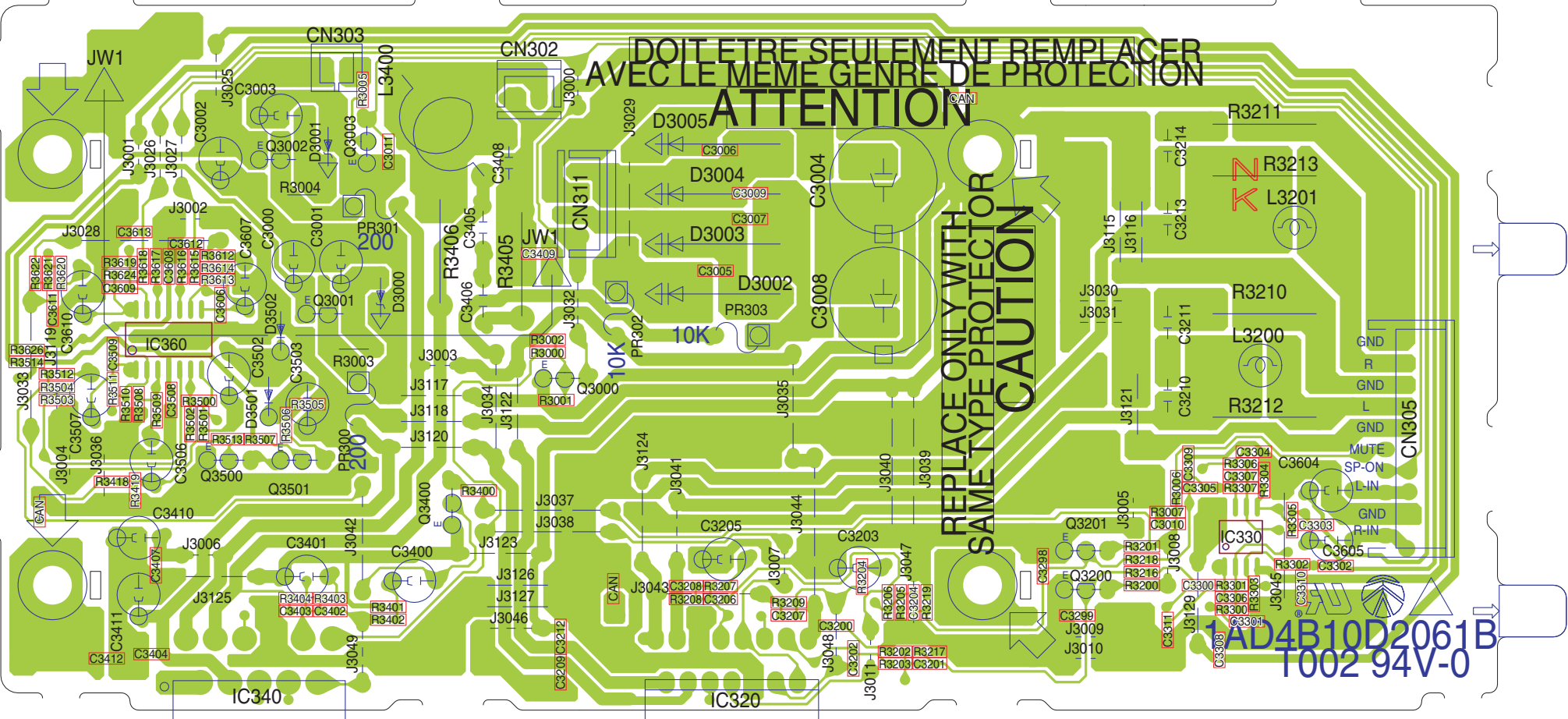


This is a basic schematic diagram.

WIRING DIAGRAM (SPEAKER)

MAIN P.W.BOARD

POWER TRANSFORMER P.W.BOARD



This is a basic wiring diagram.

SANYO

SANYO Electric Co., Ltd.
Osaka, Japan